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Boating Supplies

ELECTRONICS

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Features

Depth Sounders

- Depth Range to 199 ft (61m)
- Reads Depth in Meters, Fathoms and Feet.
- Oversized back-lit display.
- Keel Off-set, Shallow, and Deep Water Alarms.
- Audio and Visual alarms.

Through Hull Transducer

Transom Mount Transducer

In Hull Transducer

Transducers

- Easy installation.
- Includes mounting hardware.

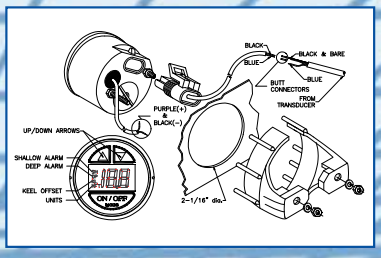
Depth Sounder

Easy installation.

Fits a standard 2 1/16" gauge mounting hole.

Harnesses and connectors included.

Available in a wide variety of Faria® Styles



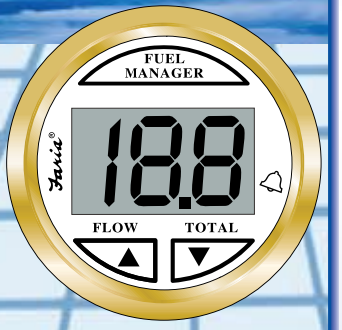
Fuel Manager™

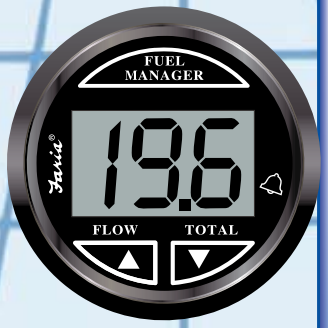
Easy installation.

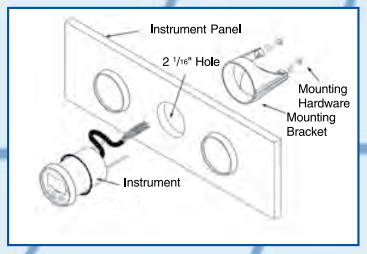
Fits a standard 2 1/16" gauge mounting hole.

Harnesses and connectors included.

Available in a wide variety of Faria® Styles







Features

Fuel Manager

- Displays Fuel Remaining
- Monitors Fuel flow from .5 to 34 Gallons per hour, or 2.5 to 160 Liters per hour.
- Trip Fuel Log and Total Fuel Log displayed in Gallons or Liters.
- Includes a selectable low fuel audible alarm.

Fuel flow Sender

Euro White

Chesapeake Black

Professional Red

Chesapeake White

Coral

Faria® MARINE INSTRUMENTS

The choice of World Leading Boat Manufacturers.

USA WATER SKI · AWSA · NMMA

Standard Styles

Chesapeake SS Black

Nantucket

Euro

Euro Beige

Dress White

Competition Round

Euro Beige SS

Chesapeake SS White

Competition Square

Made in USA

CE

Faria® MARINE INSTRUMENTS

Faria marine instruments are manufactured and assembled entirely in the U.S.A. Faria offers the industry's only transferable limited LIFETIME WARRANTY. Speedometers, synchronizers and tachometers are 4" and require a 3-3/8" hole. All other Faria gauges have a 2-1/2" bezel and require a 2-1/16" hole.

Coral
- Perimeter lighted black face
- Blue & white graphics
- Black aluminum raised bezels
- Contoured white pointer
- Flat glass lens

Euro
- Perimeter lighted black face
- Bold white graphics
- Contoured white pointer
- Flat glass lens

Euro Beige Stainless Steel
- Perimeter lighted beige dial
- Bold black graphics
- Polished stainless steel bezel
- Domed glass lens

TYPE OF GAUGE	CORAL	EURO	EURO BEIGE S.S.	EURO WHITE	CHESAPEAKE S.S. BLACK	CHESAPEAKE S.S. WHITE	DRESS WHITE	PROFESSIONAL RED
TACHOMETERS								
6000 RPM Gas in-boards and I/O's	FAR 33004	FAR 32804	FAR 35104	FAR 32904	FAR 33710	FAR 33807	FAR 33103	FAR 34607
7000 RPM Universal outboards	FAR 33005	FAR 32805	FAR 35105	FAR 32905	FAR 33718	FAR 33817	FAR 33104	FAR 34617
6000 RPM Universal outboards with LCD hour meter	~	~	~	FAR 32932	~	FAR 33832	~	~
7000 RPM Universal outboard with LCD hour meter	FAR 33040	FAR 32840	~	FAR 32940	~	~	~	~
4000 RPM Mechanical diesel take-off & var-ratio alt	~	FAR 32842	~	FAR 32942	~	~	~	FAR 34642
4000 RPM Diesel mag pickup	FAR 33003	~	~	~	~	~	~	FAR 34618
4000 RPM Diesel mag pickup with LCD hour meter	FAR 33041	FAR 32841	~	FAR 32941	~	~	~	~
SYCHRONIZERS								
Twin gas in-boards, I/O's and most diesels (*See note 1)	FAR 33007	FAR 32807	~	FAR 32907	FAR 33701	FAR 33801	~	~
SPEEDOMETERS								
35 MPH (*See note 4)	FAR 33008	FAR 32808	FAR 35108	FAR 32908	~	~	FAR 33122	~
55 MPH (*See note 4)	FAR 33009	FAR 32810	FAR 35122	FAR 32909	~	FAR 33811	FAR 33112	~
60 MPH (*See note 4)	~	~	~	~	FAR 33704	~	~	FAR 34611
80 MPH (*See note 4)	FAR 33010	FAR 32812	FAR SE9424	FAR 32910	~	~	FAR 33113	FAR 34619
FUEL LEVEL GAUGE								
Empty - 1/2 - Full	FAR 13001	FAR 12801	FAR 15101	FAR 12901	FAR 13701	FAR 13801	FAR 13101	FAR 14601
OIL PRESSURE GAUGES								
80 PSI	FAR 13002	FAR 12803	FAR 15103	FAR 12902	FAR 13702	FAR 13802	FAR 13102	FAR 14602
100 PSI	~	FAR 12845	~	~	~	~	~	~
Metric 10 Bar (*See note 2)	~	~	~	FAR 12926	~	~	~	~
WATER TEMPERATURE GAUGES								
100º - 250ºF	FAR 13004	FAR 12812	FAR 15112	FAR 12904	FAR 13704	FAR 13804	FAR 13110	FAR 14604
40º - 120ºC. (*See note 2)	~	~	~	FAR 12929	~	~	~	~
VOLT METERS								
10 - 16 Volts D.C. (12 volt system)	FAR 13010	FAR 12821	FAR 15121	FAR 12911	FAR 13705	FAR 13805	FAR 13120	FAR 14605
20 - 32 Volts D.C. (24 volt system)	~	FAR 12860	~	~	~	~	~	~
AMMETER								
60 - 0 - 60 Amps	FAR 13011	FAR 12822	~	FAR 12912	~	~	FAR 13149	FAR 14631

Euro White
- Perimeter lighted white dial
- Bold black graphics
- Black aluminum bezel
- Contoured black pointer
- Flat glass lens

Chesapeake Black Stainless Steel
- Perimeter lighted black dial
- Blue & white graphics
- Polished stainless steel bezel
- Contoured white pointer
- Domed glass lens

Chesapeake White Stainless Steel
- Perimeter lighted white dial
- Blue & white graphics
- Polished stainless steel bezel
- Contoured black pointer
- Domed glass lens

Dress White
- Perimeter lighted white dial
- Black graphics
- White aluminum bezel
- Contoured black pointer
- Flat glass lens

Professional Red
- Perimeter lighted black dial
- Red and white graphics
- Black aluminum bezel
- Tear drop white pointer
- Flat glass lens

TYPE OF GAUGE	CORAL	EURO	EURO BEIGE S.S.	EURO WHITE	CHESAPEAKE S.S. BLACK	CHESAPEAKE S.S. WHITE	DRESS WHITE	PROFESSIONAL RED
HOURMETER								
10,000 hours. Elapsed time in hours & tenths of hours. (*See note 6)	FAR 13013	FAR 12824	FAR 15124	FAR 12913	FAR 13713	FAR 13813	FAR 13121	FAR 14613
CLOCK								
Quartz analog clock	FAR 13014	FAR 12825	~	FAR 12923	~	~	FAR 13152	FAR 14652
CYLINDER HEAD TEMPERATURE GAUGE KIT								
60° - 220°F. For water cooled outboards. Comes with sending unit.	~	FAR 12819	~	FAR 12910	FAR 13706	FAR 13806	~	~
BATTERY CONDITION INDICATOR								
Displays energy remaining for12 volt batteries	FAR 13012	~	~	FAR 12933	~	~	~	FAR 14623
TRIM GAUGES								
Mercury & Mariner O/B's & Mercruiser stern drives.	FAR 13017	FAR 12828	FAR 15128	FAR 12916	FAR 13707	FAR 13807	FAR 13122	FAR 14607
OMC O/B's Johnson / Evinrude & Suzuki	FAR 13016	FAR 12827	FAR 15127	FAR 12915	FAR 13709	FAR 13809	~	FAR 14609
OMC Sea drives & OMC stern drives (Except Cobra)	FAR 13015	FAR 12826	~	~	FAR 13734	~	~	FAR 14630
OMC Cobra & Volvo SX stern drives	FAR 13018	FAR 12829	FAR 15129	FAR 12917	FAR 13708	FAR 13808	~	FAR 14608
WATER PRESSURE GAUGE KITS								
30 PSI For water cooled outboard motors (*See note 3)	~	FAR 12810	~	FAR 12903	FAR 13712	FAR 13812	~	FAR 14612
2 Bar Metric For water cooled outboard motors (*See note 2)	~	~	~	FAR 12922	~	~	~	~
TANK LEVEL								
Empty - Full. Potable water (*See note 5)	~	FAR 12830	~	FAR 12920	~	~	~	
RUDDER ANGLE INDICATOR								
Requires sender	FAR 13024	FAR 12833	~	FAR 12931	~	~	~	~
TRANSMISSION PRESSURE								
25 Bar/350PSI Metric	~	~	~	~	~	~	~	FAR 14626

Note 1: Not for flywheel sensors
Note 2: Use with European/International sending units
Note 3: With installation kit
Note 4: Requires pitot tube on boat
Note 5: Use with standard marine sending unit
Note 6: Non-illuminated gauge

► *NOTE:* See Colour Insert For More Details

Faria 4-In-One Combo Gauge

4” Combination gauge includes fuel, volts, oil pressure and engine temperature analog readings. White face with a chrome bezel.

FAR 33851 Chesapeake S/S white

Faria Euro Tachometer w/ System Check

- 4” Diameter
- 7000 RPM
- 4 system check indicators: no oil, low oil, temperature, engine check

FAR 32850 Euro, black

Faria Boxed Sets

Complete set of fog free Chesapeake stainless steel gauges in white or black.
Inboards (6 piece)

- Speedometer w/ pitot, Tachometer, Fuel, Volt, Temperature, Oil pressure

FAR KTF001 White
FAR KTF003 Black

- Outboards (4 piece)
- Speedometer w/ pitot, Tachometer, Fuel, Volt

FAR KTF002 White
FAR KTF004 Black

► *Also See: Fuel Senders pg 519*

Faria Digital Depth Sounder w/ Dual Temperature

- Displays in feet or meters
- Shallow and deep water alarms
- Alarms are audio & visual
- Programmable keel offset
- Transom mounted transducer included
- Complete with air & water temperature sensors

FAR 13752 Chesapeake, S/S black

Parts:
FAR SN 2011A Transom mount depth transducer

► *Also See: Faria Depth Sounders pg 176*

Faria Accessories

Rudder Angle Indicator Senders

FAR 90530 Single station, Standard or floating ground
FAR 90531 Dual station, Standard or floating ground

Lighting Boots

Change the colour of your Faria instrument lighting.

FAR 90807 Blue tint 4/pkg
FAR 90808 Green tint 4/pkg
FAR 90809 Red tint 4/pkg

Replacement Bulbs

SPE 161 Fits all 2" gauges, black/gray dials except water pressure, vacuum boost, vacuum & 2" operator warning system.
SPE 658 Fits all 2" gauges, white dials except water pressure, vacuum boost, vacuum & 2" operator warning system.
SPE 194 Fits all tachometers & Speedometers except competition series.

24 Volt Adapters

Adapts 12V Faria to 24V systems.

FAR 90303 All tachometers and synchronizers
FAR 90306 All clocks
FAR 90310 All Mercury, Mariner trim gauges
FAR 90314 Fuel level, tank level, trim for OMC (except Cobra). Also, do not use with Professional Red series.

Misc Items

FAR 90801 Bulb socket only

Moeller Dash Mount Electronic Fuel Gauge

- All electrical senders are calibrated to 33 to 240 OHMs
- 100% inspected during manufacturing

MOE 035727-10

Moeller Conversion Capsules

Direct site mechanical read capsule.

MOE 035759-10

Conversion capsule from mechanical to electrical dash mounted gauge.

MOE 035760-10

VDO Oceanline Series Instruments

All VDO Ocean Line instruments are hermetically sealed, corrosion-free and fitted with anti-fog double lenses in shock-resistant plastic. Resistance to sea water is guaranteed. The domed design ensures that water flows off quickly when instruments are mounted horizontally. The dials are back lit using transmitted light technology. Front panels and bezels can be interchanged.

2-1/6" (52mm) Diameter Gauges

- Pressure: electrical
- Depth: 2.59"

VDO 02-124-126	72 PSI 12V, Oil
VDO 350-110-4	80 PSI 24V, Oil
VDO 02-124-166	150 PSI 12V, Oil
VDO 02-124-566	150 PSI 24V, Oil
VDO 02-124-168	400 PSI 12V, Transmission
VDO 02-124-568	400 PSI 24V, Transmission

- Rudder Angle
- 12V

VDO 03-211-412	Position indicator
VDO 440-003	Sender

- Voltmeter
- 8-16 Volts 12V system, 16-32 Volts 24V system
- Depth: 2.59"

VDO 332-1101	12V
VDO 02-410-906	24V

- Water Temperature
- Electrical
- 250°F/120°C

VDO 02-321-728

- Ammeter

VDO 1901101

- Fuel Gauge
- 10-180ohm

VDO 301-1103

- Clock
- 12/24volt

VDO 3701101

VDO Oceanline Series Instruments

3-3/8" Diameter Gauges

- Diesel tachometer gauges with LCD hour meter, electrical, 85mm (3-3/8") Dia.

VDO 02-012-126	3,000 RPM
VDO 02-012-150	4,000 RPM

Gauge Parts:

VDO 600-807D	24 volt bulb
VDO 600-822	24 volt red mini wedge bulb
VDO 850-040	Bezel 85mm, chrome
VDO 850-041	Bezel 52mm, chrome

Spare Parts:

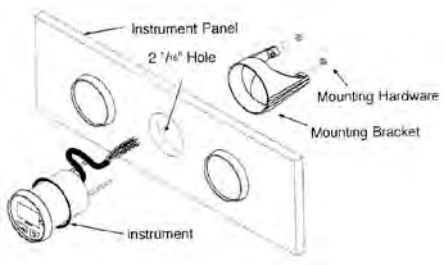
VDO 600-001	Square bezel & gasket 2-1/16"
VDO 600-003	Square bezel & gasket 4"
VDO 600-513	4" Lens kit, inner & outer
VDO 600-515	2-1/16" Lens kit, inner & outer

Faria Digital Fuel Management Systems

For gas engines only

- Displays gas remaining
- Monitors fuel flow from .5 to 34 gallons per hour or 2.0 to 129 litres per hour
- Trip fuel log and total fuel log displayed in gallons or litres
- Includes a selectable low fuel audible alarm
- Back light
- Splash resistant
- Size - 2-1/16
- Voltage: 8-16.5 V.D.C
- Display- 3 character L.C.D

FAR FFM001	Black dial & bezel
FAR FFM009	Euro White



Floscan Cruisemaster Gasoline Flow Meters

Floscan systems are available for virtually all types of engines and applications (diesel or gas, single or twin engine).

The series 5500 Cruisemaster flow meters fit gasoline inboard, I/O and outboard engines.

- Self contained totalizer with permanent LCD display records fuel consumption up to 9999.9 litres.
- Resettable or non-resettable operating modes.
- Maintenance free fuel flow sensor.
- Microprocessor based electronics with user adjustable calibration for superior accuracy.
- Twin engine models use one gauge and show individual flow rates to each engine by an external switch with the totalizer recording the combined fuel consumption.
- Bezel diameter: 3-3/8". Panel mounted into a 3-1/16" opening.

Series 5500 for inboards/stern drives up to 350 H.P. and outboard's below 150 HP. Fits all EFI engines except those with return line to the tank.

Part #	Engine (s)	Litres/Hour	O/B HP
FLO 55160-20B-1	Gas, Single	0-160	150 HP
FLO 55160-20B-2*	Gas, Twin	0-160	150 HP

*Request Item

Sierra Temperature Senders

SIE 18-5896	1/8” 240°F
SIE 18-5897	3/8” 240°F
SIE 18-5898	1/2” Dual 240°F

Marine Works Temperature Switch

Used with light. Set at 210ºF. 3/8" NPT.

MWK 25101	200°F trip

Marine Works Water Temperature Senders

Water temperature sender operates Faria, Stewart-Warner and Teleflex gauges.

Single Station

MWK 26611	1/4" NPT 240°F
MWK 26621	3/8" NPT 240°F
MWK 26631	1/2" NPT 240°F

Dual Station

MWK 26641	1/8" NPT 240°F
MWK 26651	1/4" NPT 240°F

VDO Water Temperature Senders

Universal senders use a tapered thread and do not need Teflon tape or pipe sealant.

Single Station

VDO 323-421	3/8"-18 NPT 250°F/120°C
VDO 323-477	1/4" NPT 250°F/120°C
VDO 323-479	3/8" NPT 250°F/120°C
VDO 323-478	1/2" NPT 250°F/120°C
VDO 323-485	1/4" NPT 300°F/150°C

Dual Station

VDO 325-007	3/8" NPT 250°F/120°C
VDO 325-002	1/4" NPT 250°F/120°C
VDO 325-010	1/2" NPT 250°F/120°C

Universal Kits

Includes 1/8"-27 NPT sender, 1/4"-18 bushing, 3/8"-18 bushing, 1/2"-14 bushing and 1/4" spade terminal.

VDO 323-900	250°F/120°C
VDO 323-905	300°F/150°C

Faria Water Temperature Senders

Single station or dual station for use with most marine water temperature gauges.

FAR 90401	1/8" NPT, water temp sender
FAR 90402	1/4" NPTF, temperature sender
FAR 90403	3/8" NPTF, water/oil/temp sender
FAR 90404	1/2" NPTF, temperature sender
FAR 90406	1/8" NPT, dual sender
FAR 90412	1/8" NPTF Euro. single standard ground
FAR 90601	Sender bushing kit (1/4" & 3/8")
FAR 90602	Sender bushing kit (1/2" & 5/8")

Faria Cylinder Head Temperature Sender:
Works with all models

FAR 90405	Sender

Faria Diesel Tachometer Sender

Generates signal by coupling to mechanical take-off on engine. Complete with swivel adaptor assembly. One sender will operate two tachometers.

FAR 90901

Sierra Oil Pressure Sender

- Single station
- 1/8"-27 thread size
- 10-32 stud terminal
- 0-80 PSI

SIE 18-5899

Marine Works Oil Pressure Switch

Oil switch. Used for electric fuel pump shut off. Set at 6 PSI. Used by Mercury Marine and Volvo. (1/8" NPT).

MWK 22900

VDO Oil Pressure Senders

Universal senders use a tapered thread and do not need Teflon tape or pipe sealant.

Single Station

VDO 360-406	1/8" 400 PSI, single
VDO 360-410	1/8" 80 PSI, single
VDO 360-430	1/8" 150 PSI, single
VDO 360-431	1/8" 350PSI, single

Dual Station

VDO 362-001	1/8" 80 PSI, dual
VDO 362-002	1/8" 150 PSI, dual
VDO 362-004	1/8" 400 PSI, dual

Universal Kits

Includes 1/8"-27 NPT sender, 1/4"-18 bushing, 3/8"-18 bushing and 1/2"-14 bushing.

VDO 360-900	80 PSI
VDO 360-905	150 PSI

Marine Works Oil Pressure Senders

Oil pressure sender operates Faria, Stewart-Warner and Teleflex gauges. Range: 0-80 PSl (1/8" NPT).

MWK 24891 Dual station

Range: 0-100 PSI (1/8" NPT)

MWK 24301 Single station

Faria Oil Pressure Senders

American (0-80 P.S.I.)

FAR 90512	Single station, standard ground
FAR 90511	Dual station, standard ground

European

FAR 90515	1/8" NPTF 5 BAR single standard ground
FAR 90526	1/8" NPTF 10 BAR/150 PSI single standard ground

VDO Oil Pressure Switches

Heavy duty switches compatible with a wide variety of fluids, making them ideal for most engine system applications.

Normally closed-Single circuit-2 Terminal-Insulated ground

VDO 230-504 4 PSI

Dual circuit-Normally open-Normally closed-Insulated ground

VDO 230-604 4 PSI

Faria Pitot Tube Assembly Kits

Complete transom mount speedometer pick-up with escutcheon plate and mounting hardware (less tubing) for all marine speedometers through 80 MPH. Rugged, heavy-duty design.

FAR 91109

Same as 91109 but includes 20' of tubing

FAR 91106

Cover Plate

Black finish cover plate for pitot tubing or cable entry.

FAR 91105

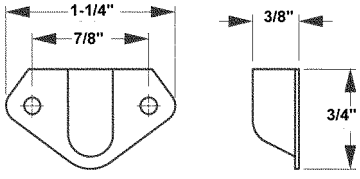
Shields Speedo Tubing

- Black vinyl tubing for pitot hook-up.
- Dimensions: 1/8" I.D. x 1/4" O.D

HOS 151-0185	1/8" x 25'
HOS 151-1/8"	Per foot

Sea-Dog Pitot Tube Shield

Made from 304 stainless steel. Designed to guard cables and electrical wiring on items such as depth sounders, speedometers and coaxial cables when they are passing through the transom.



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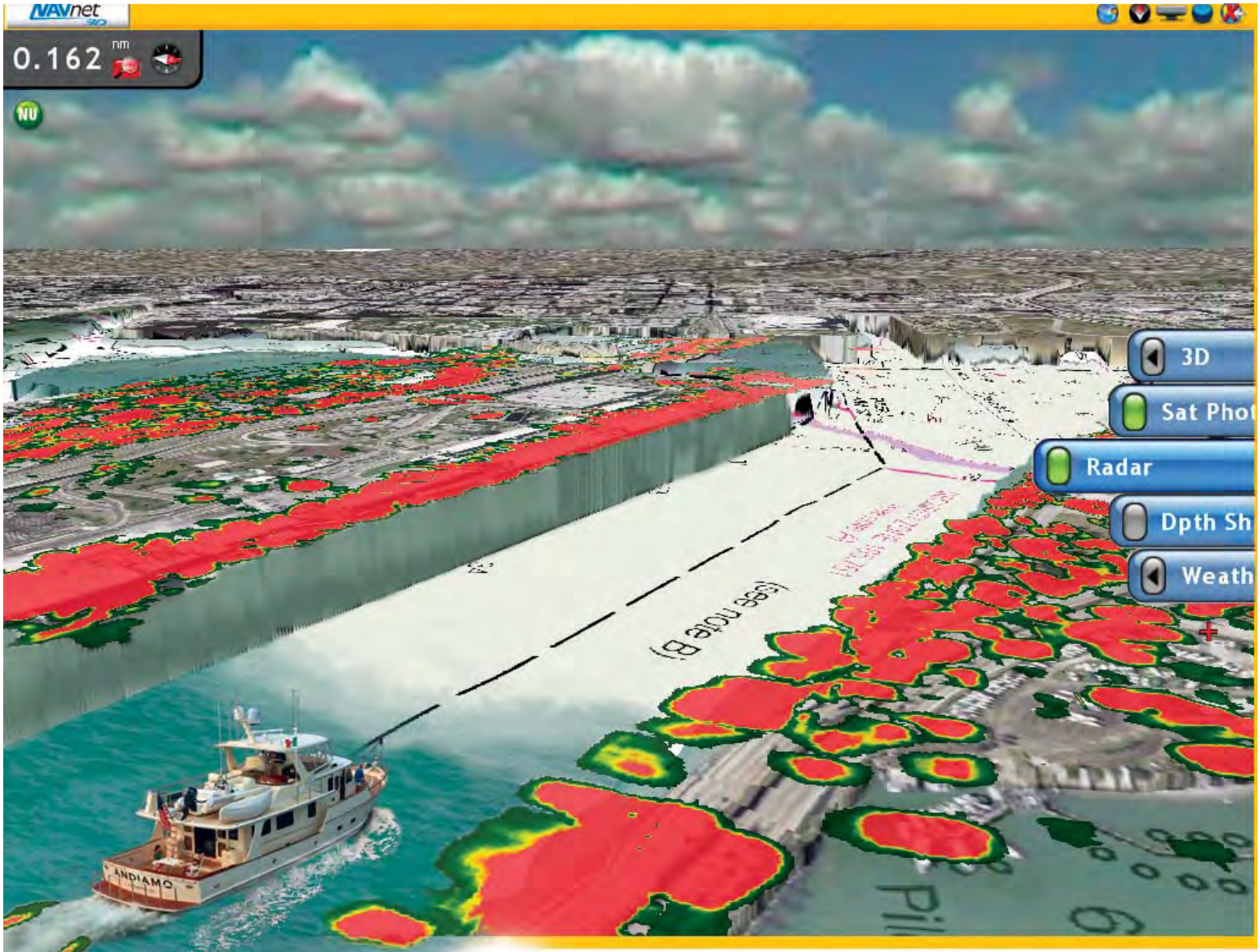


Beyond Virtual Reality!

Experience a world of 3D navigation that transports you beyond any conventional Chart Plotter, Radar, or Fish Finder you've encountered. Tremendously intuitive operation, lightning fast performance, and the ultimate in situational awareness are finally here. Journey beyond virtual reality with NavNet 3D!

C-MAP by JEPPESEN

Now optionally available on NavNet 3D!

NAVnet 3D

FURUNO

www.FurunoUSA.com

FURUNO

Furuno Fish Finders

- Dual frequency - 50 and 200 kHz
- Targets presented in up to 4 grey tones
- Picture resolution of 240(H) x 320(V) pixels
- 300 Watt RMS (2400 P-P) output power
- Seven depth scales, from 0-10 to 0-640'
- Depth offset to 1,500', maximum depth scale of 3,000'
- Automatic or manual depth range and gain adjustment
- A-scope for rapid fish detection and species identification
- White line mode for enhanced bottom fish detection
- Audible and visual, temp, speed, fish or bottom alarm
- TLL output sends position, temp and depth to Furuno TLL capable plotters
- Speed and temperature input via optional sensor or NMEA 0183 data
- Mini navigator allows storage of up to 12 way points, with capability to navigate back to these points
- Two NMEA0183 ports - one bidirectional and one "listen-only"
- Transducer sold separately

FUR LS4100 5" monochrome display
FUR LS6100 6" monochrome display

Furuno Colour Fish Finders

- Bright, 5.6" or 8.4" waterproof colour LCD gives excellent readability even in broad daylight
- Dual-frequency 50/200 kHz
- New DSP filter makes the picture clearer and easier to discriminate between bait fish and larger target species
- 8/16/64 colour echo presentations
- Hands free adjustments of gain, STC & output power through digital filtering 8 range scales to 2,500 feet
- Selectable automatic cruising or fishing modes to suit your style of boating
- Automatic function for detecting fish and bottom in both shallow and deep water
- User-programmable nav data display provides analog and digital nav data
- Alarms: bottom, fish (bottom lock and normal), speed, water temperature and arrival (speed, arrival and water temperature alarms require appropriate sensor)
- White line feature helps discriminate fish lying near the bottom
- Fast transmission rate of 3,000 PRR (pulse repetition rate) per second for enhanced shallow water detection
- Transducer sold separately

FUR FCV620 6" colour display (600W)
FUR FCV585 8.4" colour display (600W/1Kw)

Furuno GPS Receiver

- Improved accuracy with built-in WAAS receiver
- Multiple display modes to suit a variety of navigational requirements
- Up to 999 way points, 50 routes and 1,000 track points
- One-touch way point entry
- Customizable NavData screens
- Track back feature stores way points at user defined intervals for early trace-back cruise
- Way point & route upload/download through RS-232C port
- Includes GP017 GPS antenna & 10m cable

FUR GP32 4.5" monochrome display

Furuno GPS/Chart Plotter

- High-performance GPS/WAAS receiver sunlight viewable 7" TFT bright colour LCD (16:9 aspect ratio)
- Enhanced chart redraw speed
- Display modes: course plot, nav data, steering, highway
- User-friendly interface and operation with rotary encoder and soft keys
- Includes GPA017 GPS/WAAS antenna with 10M cable
- Dual SD card slots for memory and chart cards
- Uses C-MAP NT MAX SD charts

FUR GP7000/NT 7" colour display

Furuno GPS/Chart Plotter/Fish Finder

All of the features above, with the addition of a fish finder.

The fish finder function graphically depicts underwater conditions, such as fish schools and seabed. Operating frequency is 50 and 200 kHz with high transmission output power of 600 watts or 1,000 watts. The information can be displayed together with the course plot mode in split screen or by itself on a full screen.
Transducer sold separately

FUR GP7000F/NT 7" colour display

► *Also See*: *Transducers pg 169*

Furuno NavNetVX2 GPS/Chart Plotters

Chart Plotter Features:

- 7" or 10.4" sunlight viewable VGA (480 x 640) display
- Front loading card port
- Simplified installation with new network wizard set-up
- Cursor L/L position display
- On-screen display of vessel position, heading, etc.
- Vessel position display in L/L or Loran-C TD's
- North-up, course-up or automatic course-up display modes
- Plotter, nav data, steering director or highway display modes
- Up to 8,000 points for ship's track and marks, 999 way points, 35 quick points, 1 MOB, 200 planned routes (max. 35 Way points/route) and 1 quick route
- Add multiple displays connecting to Navnet interface
- Add network sounder connecting to Navnet interface
- MOB key stroke stores vessel position and time
- Plotter range scales from 0.14 To 6,144 nautical miles
- 16 Different mark symbols may be used
- Way point entry by L/L position or TD position or target range and bearing
- Plotter position interval set by time or distance travelled
- Full functioning infrared remote control
- Dual SD card slots for memory and chart cards
- Uses C-MAP NT MAX SD charts

GPS Features:

- Integral parallel tracking GPS/WAAS receiver w/ 10m cable
- Up to 900 knot tracking velocity
- 20 seconds for first position fix
- GPS position accuracy of approximately 10 meters, 95% of the time with S/A off
- WAAS position accuracy of approximately 3 meters, 95% of the time with S/A off
- Includes BBWGPS & 10m cable

FUR GP1720C-NT 7" colour display
FUR GP1920C-NT 10.4" colour display

MaxSea Marine Software

MaxSea TimeZero advances PC Chart Plotting to the next level, allowing you to navigate in ways never before possible. An all-new graphics engine, updated tool sets and included raster and vector charts for the entire U.S. coastline make MaxSea Time Zero the most powerful PC navigation package you can own.

TZ-Navigator

With TimeZero Navigator, MaxSea offers an entry-level system developed for the US market. You can connect your GPS and autopilot, download/overlay weather, and perform advanced planning. You can begin using Navigator right out of the box with free, detailed raster and vector charts for the U.S. that are included on DVDs.

- Full-time 3D environment
- Ergonomics and performance
- MapMedia MM3D vector and raster charts
- Satellite Photo Fusion
- Online support

FUR TZ-NAVIGATOR*

*Request Item

Furuno 6" LCD Radar (Stand Alone)

- Waterproof, 6" silver bright monochrome LCD display
- 14 range scales from 0.125 to 24 nm
- Low power consumption in watchman mode - only 8 W
- Dual bandwidth IF amplifier: broad band for high fidelity in short ranges, narrow band for enhanced detection in long ranges
- Variable antenna speeds with range scales for optimum performance on all ranges
- Cursor position can be read in L/L (GPS navigator is required)
- Way point lollipop on-screen to aid in vessel navigation (GPS navigator is required)
- Programmable navigation data repeater feature
- Zoom in to a specific area
- Reverse video feature for effective use at night
- Guard zone alarm (US Patent No.5032842)
- 10 m cable

FUR 1623 2.2kW 16NM, 15" radome included

Furuno 7" LCD Radar (Stand Alone)

- Waterproof, 7" silver bright monochrome LCD display
- 14 range scales from 0.125 to 24 nm
- Low power consumption in Watchman mode - only 8 W
- Dual bandwidth IF amplifier: broad band for high fidelity in short ranges, narrow band for long ranges
- Variable antenna speeds with range scales for optimum performance on all ranges
- Cursor position can be read in L/L (GPS navigator required)
- Way point lollipop on-screen to aid in vessel navigation (GPS Navigator is required)
- Programmable navigation data repeater feature
- Zoom in to a specific area
- Reverse video feature for effective use at night
- Guard zone alarm (US Patent No.5032842)
- 10 m cable

FUR 1715 2.2kW 24NM, 18" radome included

TZ-Explorer

Includes all of the TZ-Navigator features plus:

- MaxSea TimeZero Weathercaster for sea surface temperature, altimetry and chlorophyll
- NavNet 3D radar overlay
- NavNet 3D chart license sharing and chart server
- NavNet 3D route and waypoint exchange via network synchronization

FUR TZ-EXPLORER*

*Request Item

Furuno NavNetVX2 Radar/Chart Plotters

- AR-coated, high-brightness display unit for improved sunlight viewability
- Automatic GST (gain, sea clutter, tuning) receiver
- Target or echo trails with selectable time intervals
- Enhanced graphics with 256 colour full VGA presentations
- Improved screen redraw, scroll refresh, and memory cache
- New quick point L/L direct entry way point
- 100 Target AIS display with I/F module and external AIS RX
- Simplified installation with new network wizard set-up
- Adjustable (in or out) radar guard zone alarm
- Picture off-centering or target zoom mode
- Cursor L/L position display
- Watchman mode activates the radar for safety and security
- On-screen display of vessel position, heading, etc.
- Way point lollipop on-screen, to simplify navigation
- Full functioning infrared remote control
- Radar overlay available with appropriate heading sensor
- Vessel position display in L/L or Loran-C TD's
- North-up, course-up or automatic course-up display modes
- Plotter, nav data, steering director or highway display modes
- Up to 8,000 points for ship's track and marks, 999 way points, 35 quick points, 1 MOB, 200 planned routes (max. 35 Way points/route) and 1 quick route
- Add multiple displays by connecting to Navnet interface
- Add network sounder by connecting to Navnet interface
- Dual SD card slots for memory and chart cards
- Uses C-MAP NT MAX SD charts
- Sunlight viewable 7” colour VGA (480 x 640) TFT LCD display
- New radome antenna adjusts antenna rotation speed based on the range in use, 30rpm in short range and 24rpm in mid/long ranges
- 10m cable

FUR 1724C/NT 7” colour display, 18” radome

- Sunlight viewable 10.4” colour VGA (640 x 480) TFT LCD display

FUR 1834C/NT 10.4” colour display, 24” radome
FUR 1934C/NT 10.4” colour display, 3.5’ open array

Furuno NavNet3D Multi-Function Displays & Black Box

- True 3D chart architecture
- High resolution satellite photography that can be loaded
- Satellite Photo Fusion adjusts photo transparency according to depth for complete chart information
- TimeZero technology for instant chart redraw, zooming and chart handling with no lag time
- Head-up, course-up and north-up modes
- True colour depth shading utilizing bathymetric data
- NavNet 3D ROTOKEY Puts a whole new spin in User Friendly.
- Dedicated scroll pad allows you to pan, shift and search the chart
- Dedicated ship key automatically brings you back to own ship's position after exploring the chart
- Unlimited range scales for zooming
- Dedicated 3D key allows you to easily toggle between 2D and 3D
- More than 12,000 ship's track points and over 2,000 way points
- Standard video input and output
- 200 planned routes, with up to 100 way points/routes
- Preloaded tides and currents
- Dual SD card slots for memory and chart cards
- Uses NavNet 3D charts

Furuno NavNet3D Multi-Function Displays

- Colour LCD displays
- True 3D environment for a more instinctive chart presentation
- Satellite photo fusion

FUR MFD 8 8.4” colour display
FUR MFD 12 12.1” colour display

Furuno NavNet3D Black Box

- Extended Mode feature of Navnet 3D Black Box allows you to connect two monitors and synch the video, or ‘split’ the two screens into eight different quarters to display the information you want to see most
- Display sold separately

FUR MFD BB

Furuno Ethernet Hub

The HUB101 is the centre of your NavNet 3D system, connecting all of your displays and components together and allowing for the distribution of information across the network. NavNet 3D is built on an ethernet network, allowing you to add as few or as many components as you desire along with up to ten displays to create your perfect navigational suite. Power on/off synchronization amongst all of the NavNet 3D display units can be achieved with the use of the dedicated ethernet HUB101.

FUR HUB101

Furuno Navnet 30 VHD Radomes

- Ultra High Definition (UHD) digital radar offers crystal clear, noise-free target presentation with automatic real-time digital signal processing
- Real-time digital auto gain/sea/rain controls to deliver noise-free radar presentation
- Radar antenna rotation speed (24/36/48 rpm) is automatically shifted to the appropriate pulse length
- Simultaneous scanning technology, providing unsurpassed target detection. With each sweep of antenna, dual progressive scan transmissions are sent, received and processed to display two separate radar ranges on your NavNet 3D display simultaneously. Each radar presentation acts autonomously, allowing for manipulation of individual gain and clutter controls
- Radome incorporates a NMEA 2000 port to which certain NMEA2000 sensors can be directly connected. Power for these networked sensors is supplied directly from the radome itself, allowing for flexible installation of multiple NMEA 2000 sensors without the need to run cables all the way to the main processor unit

FUR DRS2D 2.2kW 24NM, 18” dome
FUR DRS4D 4kW 36NM, 24” dome

Furuno Navnet 30 VHD Open Array Antennas

- Enhanced detection both in long and short range by digital radar sensor
- Enhanced auto tuning, auto gain and anti-clutter controls
- 48 rpm antenna rotation speed for HSC and river applications
- Adaptive antenna rotation speed according to pulse length
- Accurate radar overlay on both 2D/3D chart presentation with aid from heading sensors
- True echo trail shows afterglow of moving radar targets
- True colour radar shows density of targets in 16 colour levels
- Radar guard zone and watchman features alert you to potential danger
- Dual VRM (variable range marker) and dual EBL (electric bearing line)
- Automatic IP address assignment for true plug and play installation

FUR DRS4A 4kW 48NM, 3.5’ open array
FUR DRS6A 6kW 64NM, 4’ open array

Furuno GPS/WAAS Receiver

WAAS/GPS receiver antenna makes any NavNet product capable of receiving WAAS and GPS information. It delivers accuracy better then 3 meters by decoding GPS correction signals from the WAAS (Wide Area Augmentation System). In addition to its WAAS capability, the antenna has a compact 12-channel GPS receiver that provides accurate and reliable position fixing. Simply connect the antenna to any NavNet display and you can display WAAS/GPS information on one display or the entire NavNet network.

- NMEA 0183
- 10m cable

FUR BBWGPS

Furuno GPS/WAAS Receiver

The GP-330B is a high performance GPS receiver designed for any type of vessel. This compact and cost-effective receiver offers extremely accurate position fixes, within 3 meters with the WAAS mode activated.
The GP330B is capable of data output in NMEA2000 or NMEA 0183 format, making it an ideal GPS sensor for use with NavNet 3D systems. The sensor comes with all of the hardware required for deck- or mast-mounting solutions. A 6m cable with NMEA2000 connector is supplied as standard.

FUR GP330B

Furuno Heading Sensor

- Required for radar overlay on any Navnet system
- Inexpensive heading sensor with the highest accuracy and stability in this class of equipment
- Automatic correction for local magnetic variation with an appropriate GPS navigator or manual correction with an optional remote display RD-30
- High stability by a solid-state rate gyroscope
- Compact waterproof housing with visual status indicators for a simple installation
- Three heading data output ports: two IEC/NMEA 0183 ports, one AD-10 port
- High speed heading data output in IEC 61162-2 format

FUR PG500R

► *Also See: Solid State Compass pg 171*

Furuno Target Auto Plotter

The ARP11 is a 10-target auto plotter designed for use with NavNet and NavNet vx2, as well as the FR8002 radar series. The ARP automatically tracks automatically or manually acquired radar targets and calculates their courses and speeds, indicating them by vectors. Since the data generated by the auto plotter are based on what radar targets are selected, the radar must always be optimally tuned for use with the ARP to ensure required targets will not be lost or unwanted targets such as sea returns and noise will not be acquired and tracked.

FUR ARP-11

Furuno Satellite Marine Weather

- Live, up-to-date weather information and forecasting
- Weather information is delivered via digital receiver through Sirius' marine weather services
- You have the ability to receive weather information and forecasting that you can overlay onto your C-Map MAX charts (NavNet vx2) or NOAA raster and vector charts (NavNet 3D)
- Current weather reports, NOWRad nationwide high resolution weather radar imagery and high-resolution sea surface temperature images
- TRUE colour radar/chart plotter and Sirius marine weather!
- Includes antenna & 7.6m of cable

Satellite weather receiver service is available for NavNet vx2 7", 10.4" and Black Box units, as well as all NavNet 3D models. Requires Sirius weather service subscription, sold separately.

FUR BBWX1

Furuno Weather Station Sensor

The enhanced PB150 ultrasonic weather station instrument features higher-accuracy temperature readings and improved wind speed and direction accuracy. Weathercaster PC software version 2.0 puts your own personal weatherman on-board the boat, 24 hours a day. The easy-to-use program has multiple screen views and advanced setup features. Connect the PB150 to a NMEA 0183 display for up-to-the-minute weather information. Check the weather history graphs, as the weathercaster software can store readings for up to 72 hours. Docking the on-board PC or chart plotter can display true wind data by combining Furunos popular RD30 nav data repeater with the PB150 weather station, you can now display important weather information in a large, easy-to-read format. The PB150 has been fitted with an internal compass as well as a state-of-the-art Furuno GPS sensor, allowing you to utilize the PB150 as a backup GPS navigator.

- 15m cable

FUR PB150

Furuno Black Box AIS Receiver

- Enhances safe navigation by receiving critical navigation information from local AIS-equipped vessels
- Vastly improves situational awareness in any weather conditions including dense fog, darkness, and congested waterways
- Dual parallel channel, "full duplex" receiver design receives AIS contact messages up to 100% more often than dual channel "multiplexing" receivers
- High sensitivity, synthesized receiver automatically switches between international and local AIS channels
- Optional amplified VHF splitter allows the use of a single antenna for VHF radio and AIS receiver
- Network output to NavNet 3D/vx2 and PCs for added redundancy and installation flexibility
- Serial output for integration with various radar and chart plotter systems
- AIS viewer software included for on-board PC or land based installations
- Bulkhead mounting and low power, flexible DC input voltage design for simplified installations

Requires VHF antenna

FUR FA30

Furuno Network Sounder

- Enhanced detection of fish targets by FURUNO digital Filter (FDF) fish finder technology
- Selectable display modes include high or low frequency, dual frequency, zoom, nav data, a-scope, marker zoom, bottom zoom or bottom-lock
- Audio and visual alarms alert you whenever preset limits are met for water depth, water temperature and fish echoes
- 2 selectable automatic gain control modes: cruising and fishing modes to match your boating purposes
- IP address is automatically assigned to deliver plug and play installation
- Transducers sold separately

FUR DFF1 600w/ 1kW Dual

► *Also See: Transducers pg 169*

Furuno Depth/Temp/Nav Repeater

- Organizes operation of GPS, video plotter, radar, echo sounder, etc. For user's preference
- NMEA 0183 or IEC 61162-1 digital interface
- Positive display of own ship position, speed, course, water temperature, depth, speed and direction of current and wind
- AIRMAR Smart Sensor providing water temperature, water depth and speed relative to water
- Audible alarms for course error, ship speed, cross track error, temperature, depth, arrival
- High contrast 4.5" silver bright LCD display is night and day light viewable

FUR RD30 4.5" display

Furuno FI-150 Series Instruments

- Bright backlit displays with wide viewing angles
- Auto-backlighting feature minimizes power consumption
- NMEA2000 interface offers "plug and play" networking
- Ideal for mast or bulkhead mounting configurations
- White face gauges provide maximum contrast and visibility
- New use organic light emitting diode (OLED) backlighting technology reduces power consumption

FI-501 Apparent and true wind angle is displayed in both analog and digital format when connected to the FI-5001 or other NMEA2000 wind measurement system.

FUR FI-501 Wind Angle Display

FI-502 Provides detailed and precise wind bearing measurements from 60 port to 60 starboard, an important range for close hauled (CH) points of sail.

FUR FI-502 Wind bearing Display

FI-503 Displays critical digital data for navigation, such as depth, speed, temp, and atmospheric weather data in a 3-way split screen.

FUR FI-503 Digital Depth/Speed Display

FI-504 Features a large digital display. The combination of alpha and numeric characters present all of the data and functionality available in the FI-50 Network. Alternating data displays are possible and selected information can be switched at 3 second intervals.

FUR FI-504 Multi Function Display

FI-507 Is a large digital display capable of presenting all of the information available in the CAN bus network*. Alternating data display mode switches the user-selected information in 3-second intervals in large, easy-to-read characters.
W: 6.9" x H: 4.5" x D: 1.9"

FUR FI507*

*Request Item

FI5001 Capable of detecting wind angle accuracy of better than ±10° and wind speed accuracy of better than ±5% (20 kt). The FI5001 has a power requirement of less than 40 mA on a 12VDC system.

- Note: The FI5001 Sensor does not come with a cable

FUR FI-5001 Analog Wind Transducer

An NMEA2000 Junction Box for use with NavNet 3D and the FI50 series of instrument displays, as well as the FI5001 Wind Sensor. The FI5002 features 2 NMEA2000 backbone ports, as well as 6 NMEA2000 ports. Its power requirements are less than 2A on a 12VDC system.

FUR FI-5002 Junction box

Furuno 2nd Station Display

The FAP5011A is a single-din sized display designed for use in a NavPilot 500 or NavPilot 511 system where multiple stations are desired. Multi-station capability, maximum of six stations, is available through the utilization of a high speed network. The FAP5011A is supplied with all of the hardware required to connect to the NavPilot system.

FUR FAP5011A 3.6" display

Furuno Auto Pilots

- Unparalleled "adaptive" technology allows NAVpilot to continue improving your vessel's steering on every voyage
- Auto set-up and self-learning for vessel speed and course
- Versatile, high-resolution LCDs allow for a variety of user-defined display configurations
- One-touch operation for standby, auto and nav modes
- Exclusive FishHunter feature guides your vessel in orbit, figure eight or spiral manoeuvres around fish targets
- Network up to six full-size NAVpilot-500, compact NAVpilot-511 and/or handheld NAVpilot-520 control units
- The NAVpilot-520 (handheld type) can work as a full-functioned remote control unit within a NAVpilot system
- Multi language: English, French, German, Italian, Portuguese and Spanish

FUR NAVPILOT500 4.6" display
FUR NAVPILOT511 3.6" display

Furuno 2nd Station Handheld

The FAP5021 is a handheld control unit for the NavPilot series of autopilots. It features a 3.6" Silver Bright LCD with a variety of user-customizeable display. The FAP5021 allows for full control of your NavPilot system including one-touch STBY, AUTO, NAV and DODGE selection. Its tactile rotary knob allows for easy course and menu selection. Mounting bracket included.

FUR FAP5021

Furuno Thru-Hull Transducers

235DST-MSE

- 200 watts
- 235 kHz
- Bronze thru-hull
- Depth, speed and temperature (+/ - 1 degree)
- 10m cable with 7-Pin connector
- Can be flush mounted on a hull with up to a 22 degree dead rise

FUR 235DST-MSE

235DST-PSE

- 200 watts
- 235 kHz
- Plastic thru-hull
- Depth, speed and temperature (+/ - 1 degree)
- 10m cable with 7-pin connector

FUR 235DST-PSE

25STID-MSD

- 600 watts
- 50/200 kHz
- 40/10 degree beam angles
- Bronze thru-hull with speed and temperature
- 30 foot cable with 10-pin connector
- High-speed fairing block included

FUR 525STID-MSD

520-PLD

- 600 watts
- 50/200 kHz
- 45/15 degree beam angles
- Low profile plastic thru-hull
- 30 foot cable with 10-Pin connector

FUR 520-PLD

Furuno Transom Mount Transducer

- 600 watts
- 50/200 kHz
- 45/11 degree beam angles
- Plastic transom mount with temperature and removable speed assembly
- 30 Foot cable with 10-pin connector

FUR 525STID-PWD

Furuno In-Hull Transducer

- 600 watts
- 50/200 kHz
- 45/15 degree beam angles
- Plastic in-hull mount for shoot-through applications
- 30 foot cable with 10-pin connector

FUR 520-IHD

Furuno Smart Sensors

The DST-800PSF retractable smart sensor offers depth, speed and temperature functions (DT-800PSF depth & temp. only) in one compact thru hull fitting. Only one hole in the boats hull makes this multi-sensor attractive to both boat builders and boat owners alike. The DST-800PSF is a NMEA2000 device. The wide fore-aft, fan shaped beam is able to find bottom even when installed on high dead rise hulls or on sailboats.

- 235 kHz
- Depth, speed and temperature (+/ - 1 degree)
- 2-Meter cable with 5-Pin NMEA2K Connector
- Airmar's patent pending speed signal processing for stable and high accuracy speed readings from 160 MPH near-flush housing minimizes drag with only 5 mm (3/16") extending outside of the hull
- Depth, speed, and temperature insert is easily removed for quick service or storage
- Self-jacking cap makes it easier to remove insert

FUR DST-800PSF Depth/speed/temp sensor NMEA
FUR DT-800PSF Depth/temp sensor NMEA 2000

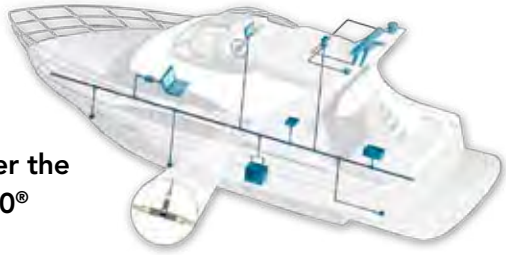
Furuno Parts & Accessories

FUR PSU12	Power supply unit DRS4A/6A W/MFD8
FUR 000-010-511	30m cable for fi 5001 sensor
FUR 000-138-974	20m radar extension cable 18x4c
FUR 000-140-436	20m radar extension cable 19x4c
FUR 000-144-463	.5m hub adapter cable
FUR 000-144-534	10m BBWGPS extension cable
FUR 000-144-564	15m signal cable assembly
FUR 000-144-565	20m signal cable assembly
FUR 000-154-027	1m ethernet cable
FUR 000-154-028	5m NMEA 7pin cable
FUR 000-154-049	5m ethernet cable
FUR 000-154-050	10m ethernet cable
FUR 000-154-054	5m NMEA 6pin cable
FUR 000-159-689	Navnet display adapter
FUR 000-166-945	5m NMEA2000 cable assembly 1ended
FUR 000-167-171	3m network cable assembly RJ45
FUR 000-167-175	2m network cable assembly RJ45
FUR 000-167-176	5m network cable assembly RJ45
FUR 000-167-177	10m network cable assembly RJ45
FUR 000-167-962	1m NMEA2000 cable assembly 2ended
FUR 000-167-963	2m NMEA2000 cable assembly 2ended
FUR 000-167-964	6m NMEA2000 cable assembly 2ended
FUR 000-167-965	1m NMEA2000 cable assembly 1ended
FUR 000-167-966	2m NMEA2000 cable assembly 1ended
FUR 008-523-070	Video interface kit for 10.4" display

AFFORDABLE VESSEL MONITORING & CONTROL

Display software

You decide what to monitor and control



Maretron products plug and play over the open industry standard – NMEA 2000®

- Anchor Monitoring
- AC Power Monitoring
- DC Power Monitoring
- Depth Monitoring
- AC/DC Electrical Distribution Monitoring
- Engine Monitoring
- Environmental Monitoring
- GPS Monitoring
- Heading Monitoring
- Indicator Monitoring
- Navigation Monitoring
- Rudder Position Monitoring
- Speed / Distance Monitoring
- Tank Monitoring
- Time & Date Information
- Transmission Monitoring
- Vessel Attitude and Trim Tabs Monitoring
- Wind Speed and Direction Monitoring
- Fuel Management
- AC/DC Electrical Distribution Control
- Alerts
- Video

Maretron®

Leading the way in NMEA 2000® technology

www.maretron.com | 866.550.9100

Maretron Wind & Weather Station

Maretron's outdoor weather station measures wind speed and direction, air temperature, barometric pressure, and relative humidity. The wind measurement is performed using ultrasonic sensors, which means there are no moving parts to wear out or to get caught in the rigging. The WSO100 accurately measures wind speed and direction even when tilted, making it ideally suited for heeled sailboats or powerboats operating in pitching and rolling seaways. When used with Maretron displays (DSM200/DSM250/N2KView), you can view apparent wind speed and direction, humidity, air temperature, barometric pressure (with graphs to see trends), wind chill factor, heat index, and dew point. If you add speed through water (DST100), GPS (GPS100) and compass (SSC200), you can view true vessel referenced wind speed and direction as well as ground referenced speed and direction.

- Apparent wind speed
- Apparent wind direction
- Atmospheric pressure
- Air temperature
- Relative humidity
- Dia: 4.25" x H: 3.45"

MRE WSO100-01

Maretron Solid State Compass

Maretron's SSC200 is a solid state, rate gyro electronic compass that provides better than 1° heading accuracy through ±45° of roll and pitch angle, and better than 1° roll and pitch accuracy in static conditions. Each SSC200 is factory calibrated for maximum accuracy. It delivers precise, reliable heading information ten times per second, plus vessel attitude including pitch and roll readings once per second. A micro machined rate gyro is used by advanced stabilization algorithms to provide accurate, stable readings during dynamically changing conditions such as hard turns or rough seas, making it an ideal heading sensor for autopilot applications. Maretron's SSC200 is certified to the NMEA 2000 network standard and compatible with the NMEA 0183 digital interface standard. It connects directly with any NMEA 2000 network and/or NMEA 0183 listeners to share information with navigational software, chart plotters, autopilots, and dedicated instrument displays - including Maretron's DSM250 and DSM200 graphical displays.

- 4.46" x 3.23" x 2.14"

MRE SSC200-01

Maretron NMEA 2000 GPS Antenna/Receiver

32 channel GPS antenna and receiver capable of providing five position fixes per second, accurate boat speed four times per second, and precision time once per second. An additional benefit of the GPS200 is that it broadcasts precision magnetic variation information using the current position and world magnetic model (WMM-2010).

The GPS200 antenna/receiver is a plug-and-play device that is fully compliant and certified to the NMEA 2000 Standard. It will directly connect to any NMEA 2000 network and communicate with navigational software, chart plotters, autopilots and dedicated instrument displays.

The GPS200 automatically decodes GPS correction signals from Satellite Based Augmentation Systems (SBAS) including the North American Wide Area Augmentation System (WAAS), the European Geostationary Navigation Overlay System (EGNOS), or the Asian Multifunctional Transport Satellite-based Augmentation System (MSAS) to provide better than 2.5m accuracy.

The GPS200 is easily mounted to any 1" standard marine mount with its standard 1"-14 male threads. It can also be mounted directly to a deck, or even (due to it's unprecedented sensitivity) underneath a fibreglass deck.

MRE GPS200-01

Maretron Colour Display

Maretron's DSM250 is a high-resolution sunlight viewable colour display that allows easy interpretation of NMEA 2000 instrument and navigation data through custom display configurations, featuring an easy-to-use five-key illuminated keypad. Unlike traditional single-display units, DSM250 users can choose numeric, gauge, or graph formats in single or multiple displays, with cycling options possible for a wide range of favourite data. These multiple display options conserve mounting space and reduce overall system cost. The DSM250 will directly connect with any NMEA 2000 network and display any or all information captured throughout the vessel. Various audio and visual alarms are also programmable. The DSM250 displays a multitude of information including AC power, battery, depth, engine, environment, fuel management, GPS, heading, navigation, rudder, speed, tanks, time, transmission, weather, wind and more. Maretron's DSM250 is engineered and manufactured to the highest standards (IEC 60945 maritime navigation and radio communication equipment). Its compact waterproof housing will provide years of reliable performance.
W: 6.875" x H: 5.75" x D: 1.75"

MRE DSM250-01

Maretron Transducer

Maretron's DST100 Smart retractable depth/ speed/ temperature transducer, delivers precise digital depth, accurate speed and exact water temperature even at speeds above 40 knots — all with no programming or calibration necessary. Its patented Smart sensor technology, retractable and removable sensor, and NMEA 2000 network connectivity make the DST100 easy to interpret, easy to install and connect with other navigation equipment, and easy to maintain. The DST100 measures precise water depth at 0.4m to 60m with a wide beam width and is tolerant to most dead rise angles. It reads water temperature from -10°C to +40°C at ±1.0°C accuracy, and accurate speed from 1 to 60 knots. At 235kHz it can be used with a fishfinder as an ideal navigation tool for sport or commercial fishing vessels—or with sailing vessels of all sizes. The DST100's plastic housing is compatible with any hull material. It includes a blank plug to replace its sensor unit when the vessel will be docked for extended periods or trailered. This prevents damage to the sensor and reduces fouling growth. Maretron's DST100 is CE compliant (IERC945) and is manufactured to the highest quality standards under ISO9K/2K procedures.

MRE DST100-01 Bronze housing

Maretron Gateway

Maretron's J2K100 attaches directly into J1939 networks of compatible engines, transmissions, and gensets and converts the J1939 data to the new marine digital interface (NMEA 2000). Critical engine, transmission, and genset data is then distributed throughout the vessel over a single cable where it can be monitored by any NMEA 2000 compatible display. The J2K100 can also be used as part of a complete fuel computer. Simply connect the J2K100 together with Maretron universal displays (DSM200/DSM250/N2KView) and GPS antenna/receiver (GPS100) and you have a system capable of displaying gallons per hour and/or miles per gallon.
3.11" x 3.46" x 1.38"

MRE J2K100-01

The J2K100 converts the following information:

- AC generator current
- AC generator frequency
- AC generator voltage
- Tachometer
- Engine hours
- Coolant pressure
- Coolant water temperature
- Engine oil pressure
- Engine oil temperature
- Boost pressure
- Fuel rate monitoring
- Charging voltage
- Percent engine load
- Percent engine torque
- Rated engine speed
- Vin
- Software
- Transmission gear
- Transmission oil pressure
- Transmission oil temperature

The J2K100 Gateway is compatible with any engine, transmission, or genset equipped with a J1939 interface, including products from the following manufacturers:

- Caterpillar
- Cummins
- Detroit Diesel
- John Deere
- Kohler
- Northern Lights
- Onan
- Perkins
- Steyr
- Volvo Penta
- Yanmar

Maretron USB Gateway

A gateway for bridging USB equipment using NMEA 0183 sentences - such as an on-board computer running navigational software - with an NMEA 2000 network. The gateway automatically converts incoming NMEA 2000 messages to NMEA 0183 sentences so you can continue benefiting from navigational and charting software that you already own while enjoying the many benefits of networked NMEA 2000 instruments. The USB100 translates a multitude of NMEA 2000 messages to NMEA 0183 sentences including GPS data, Speed Over Ground (SOG), Course Over Ground (COG), vessel heading, rudder angle, depth, speed, distance log, weather, wind and more. Engineered and manufactured to standards IEC 60945 (maritime navigation and radio communication equipment).

- 3.11" x 3.46" x 1.38"

MRE USB100-01

Maretron Tank Level Adapter

The TLA100 is used to adapt commercially available resistive tank senders to the NMEA 2000 network. This allows you to observe tank levels anywhere on the vessel where there are NMEA 2000 compatible displays such as the Maretron DSM250 or DSM200. The TLA100 is compatible with both the American standard (240-30 ohm) and the European standard (10-180 ohm) resistive senders. In fact, the TLA100 can be calibrated for any resistance between 0 and 300 ohms. Unlike most tank senders that only work with rectangular tanks, the TLA100 can be calibrated for irregular tank shapes so you know the true level of the tanks. You can also use the TLA100 with analog gauges at the same time as NMEA 2000 so you don't have to give up existing analog gauges to enjoy the advantages of digitally networked information.

- NMEA 2000 Interface
- Adapts American standard (240-30 ohm) resistive senders to NMEA 2000 Network
- Adapts European standard (10-180 ohm) resistive senders to NMEA 2000 Network
- Calibrated for any resistance range from 0 to 300 ohms or 300 to 0 ohms
- Accommodates irregularly shaped tanks with 16 point calibration
- 16 Programmable tank types including fuel, fresh water, waste water, live well
- Programmable tank number (s) up to 16 per tank type
- Programmable tank capacity
- Works alongside of analog gauges
- Can be used standalone without analog gauges

MRE TLA100-01

Maretron Alternating Current (AC) Monitor

Monitors AC power sources and outputs information about these sources onto the industry standard NMEA 2000 marine data network. The ACM100 can monitor power busses, generators, or utility power. ACM100 output information is then displayed with networked NMEA 2000 equipment such as the Maretron DSM250 dedicated display or with NMEA 2000 compatible software such as Maretron N2KView. Best of all, the ACM100 is NMEA 2000 certified so you can view any and all AC information anywhere on the vessel using a compatible NMEA 2000 display. The ACM100 is a key component of Maretron's N2KView vessel monitoring and control system.

- 3.5" x 4.2" x 2.03"

MRE ACM100-01

Maretron Direct Current (DC) Monitor

Maretron's DCM100 DC Monitor is an advanced electronic monitoring device used to measure the voltage and current of any direct current (DC) power source or load. Examples of DC power sources that can be monitored with the DCM100 include batteries, alternators, solar panels, and wind generators. The DCM100 can also be used to monitor DC loads like inverters, windlasses, DC refrigerators, or any DC branch circuit. When the DCM100 is used to monitor batteries, sophisticated circuitry and software algorithms monitor battery temperature, load current, charging current and terminal voltage to precisely compute battery state of charge, state of health, and time remaining. To measure current, the DCM100 uses an effect current sensor which simply slips over the wire - you don't have to break connections or install connectors as you do with inline shunts used by other solutions. The DCM100 is NMEA 2000 certified so you can view any and all DC information anywhere on the vessel using a compatible NMEA 2000 display. The DCM100 is a key component of Maretron's N2KView vessel monitoring and control system.

- 3.5" x 4.2" x 2.03"

MRE DCM100-01

Maretron Adapter Cords

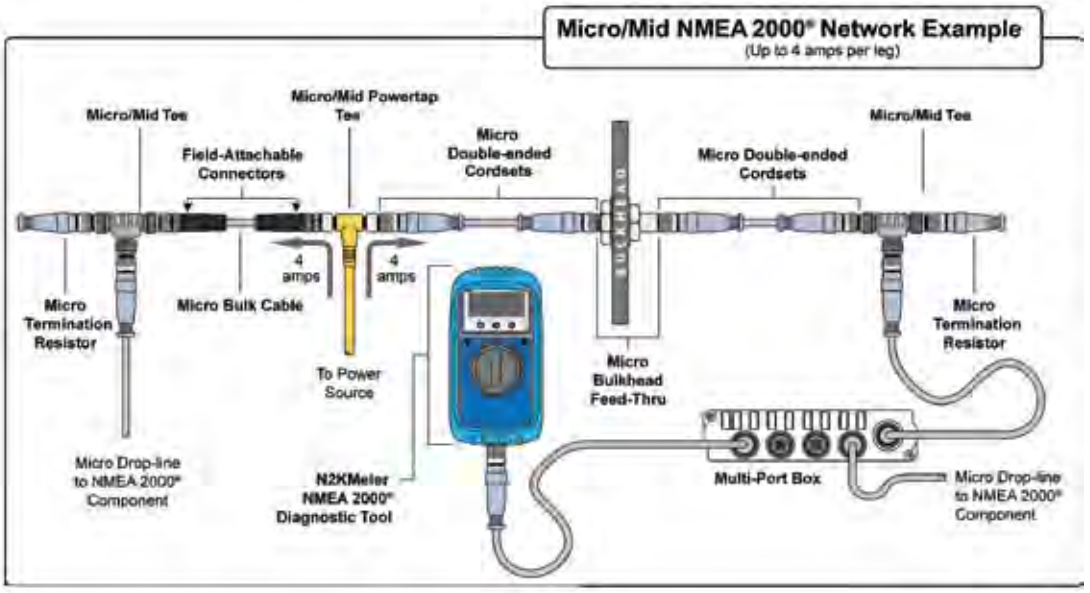
MARE-005 The Raymarine E-Series product to NMEA 2000 network adapter cable is used to connect a Raymarine E-series product, such as an E80 or E120 display, to an NMEA 2000 network. The cable is 1 meter in length and has a female Raymarine E-series connector on one end and a standard male NMEA 2000 Micro series connector on the other end. Simrad SimNet product to NMEA 2000 network adapter cable, manufactured by Simrad, is used to connect a Simrad SimNet product like the NMEA 2000/ NMEA 0183 Adapter (AT10) or CX NavStation series products to an NMEA 2000 network. The cable is 0.5 meters in length and has a female SimNet connector on one end and a standard male NMEA 2000 Micro Series connector on the other end.

MRE MARE-002 NMEA2000 to Yamaha CMD
MRE MARE-005 Raymarine E-Series to NMEA2000

Maretron Micro Cables & Connectors

MRE CF-SPWRO5-CF	Powertap tee 5m
MRE CM-CF-4	4 Way multi-port box
MRE FA-CF-ST	Field attachable connector female
MRE FA-CM-ST	Field attachable connector male
MRE IT-CM-CF	In-line termination resistor
MRE CM-CF-CF	Micro tee
MRE TR-CF	Micro termination resistor (female)
MRE TR-CM	Termination resistor (male)

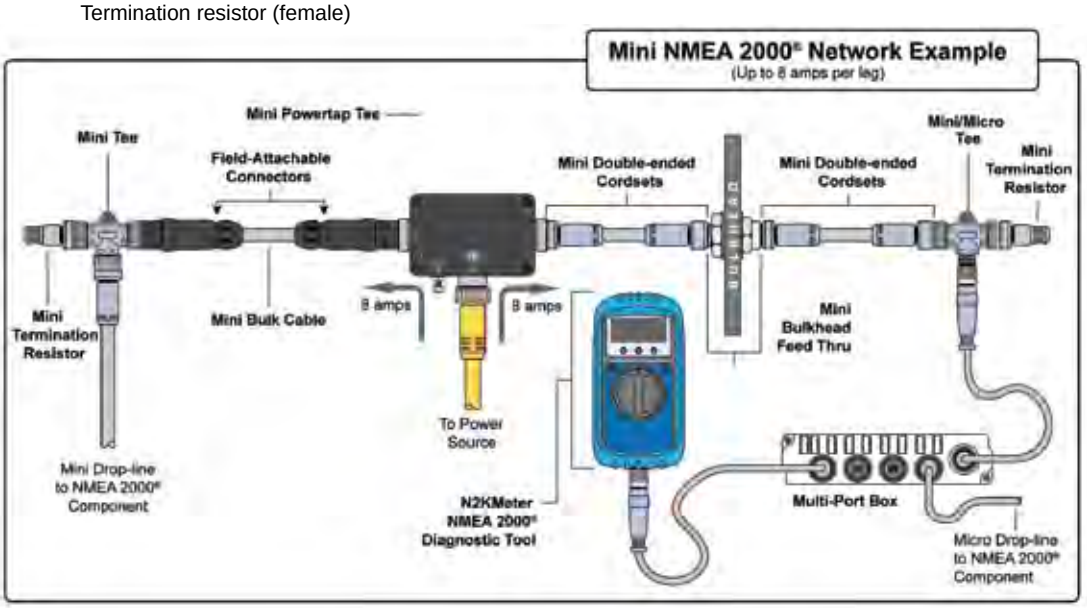
MRE CG1-100	Cable
MRE CM-CG1-CF01.0	Double ended cordset-1m
MRE CM-CG1-CF-03	Double ended cordset-3m
MRE CM-CG1-CF-06	Double ended cordset-6m
MRE CM-CG1-CF-10	Double ended cordset-10m



Maretron Mini Cables & Connectors

MRE FA-NF-ST	Field attachable connector female
MRE FA-NM-ST	Field attachable connector male
MRE NF-NM4P-NF	Powertap
MRE NM-CF-NF	Mini/micro tee
MRE TR-NM	Termination resistor (male)
MRE TR-NF	Termination resistor (female)

MRE NG1-100	Cable
MRE M84-0050	Mini cable
MRE NM4P-05	Power cordset 5m



MRE 24005729	SIMRAD simnet adapter cable
MRE AT-10	NMEA 2000/NMEA 0183 Bridge
MRE DST100-01	Depth/speed/temp triducer

Maretron Diagnostic Tool

The N2KMeter is a diagnostic tool for NMEA 2000 networks that allows users to validate NMEA 2000 network compatibility and operations during installation of a device or complete system, and diagnose possible network flaws or failures that occur on an operational network. Cut troubleshooting time from hours to seconds, by effectively identifying and diagnosing network problems. N2KMeter provides the detailed technical information an NMEA 2000 troubleshooting expert needs, yet it simplifies and summarizes, allowing an NMEA 2000 novice to effectively identify and diagnose network problems. Battery-powered operation allows a novice user to save readings for experts to analyse later, off the boat. N2KMeter uses a patented integrated intelligence technique to summarize multiple NMEA 2000 network operational variables into a single health index. To a service technician, it's a "guru-in-a-box", providing a detailed reading of network performance. It summarizes NMEA 2000 network health by displaying a happy face icon, indicating a healthy network; a sad face, indicating a serious problem; or a neutral face, indicating nominal performance (a good indication to repair things before they actually fail). N2KMeter then walks the user through each fault condition and its source, or it can record key operating parameters for offline review.

MRE N2KMETER-01

ACR Class B Transponder

- Small in size
- Plug and play
- Transmits and receives
- Water resistant
- Remote SRM switch
- GPS receiver

Enjoy the benefits of the AIS system knowing larger commercial vessels are aware of your position increasing your personal safety while navigating at sea. Unlike receive only AIS devices which do not transmit vessel information to surrounding traffic, the Nauticast-B system allows you to virtually participate in neighbouring vessels manoeuvring activities for collision avoidance. Announce your identity, position, speed and course over ground to oncoming traffic allows for increased security that you will be seen in low visibility conditions. Avoid not being seen because of extreme weather conditions or busy vessel traffic environments. Generate a safety distress message to surrounding AIS equipment, including vessels, base-stations, and possibly SAR teams. All in all, it is a horizon expanding experience; especially in combination with an electronic chart system.

ACR 2680

Hawkeye Portable Depth Sounder

To Use: Simply turn the power on, toss the unique floating sonar sensor from the shoreline, bridge, or boat and instant depth, fish, weed, and bottom contour readings are now in the palm of your hand.

- Unit dimensions:..... 1.5”H x 2.8”W x 4.3”D
- Display window size:..... 1.5”W x 1.8”H
- Display type:..... VirtuView liquid crystal icon
- LCD backlighting:..... Green LED softglow
- Power requirement:..... 4 x ’AAA’ alkaline batteries
- Battery life:..... 30 hours continuous use
- Units of measure:..... Feet & meters
- Depth range min - max:..... 1.5' - 99.9'
- Readout increments:..... 1 Foot/meter
- Sonar sensor type:..... Floating, trollable, shoot-thru
- Sonar sensor cable:..... 35'
- Operational temp. range:..... 0 to 122° F
- Warranty:..... 2 years

NRC F33P

Hawkeye Portable Depth Sounder

The 2200PX is the most versatile hand-held depth sounder ever produced. Use it in the winter to shoot through ice before cutting your hole. Use it in the summer as a range finder and temperature meter while diving. Use it as a backup depth sounder on your pleasure boat.

- Fish detection indicator
- Positive buoyancy/floats
- SideScan for depth drop-offs or hiding fish
- Unit dimensions:..... 7” x 2” x 2”
- Unit weight:..... 8 oz
- Display type:..... Polarized LCD
- Display window size:..... 1.6” x .75”
- LCD backlighting:..... Softglow
- Temperature readout:..... 14 to 122° F
- Depth range min - max:..... 2.5 - 199'
- Depth readout increments:..... 1 Ft/m
- Power requirement:..... 4 ‘AA’ batteries (not included)
- Battery life:..... 30 hours continuous use
- Units of measure:..... Ft, M / F, C
- Waterproof rating:..... IPX 8
- Waterproof limit:..... 200'
- Warranty:..... 2 years

NRC H22PX

Hawkeye Depth Sounders

The HawkEye Digital Depth Sounder (DF1000D) is designed to give precise depth readings from 2.5 to 200 feet, up to 63 mph. Utilizing a sophisticated microprocessor, it reacts instantly to changes in depth, and will warn you of depth changes using the built-in 3 Stage Advanced Warning System M. The unit mounts in a standard 2-1/8" gauge hole, or can be surface mounted using HawkEye's MB01 mounting bracket. The unit's auto-ranging, auto-sensitivity features ensure precise readings under any condition.

- Case dimensions: .....2" Dia, 1.75" Depth
- Display window size:.....1.65" x .87"
- Display type:.....Polarized liquid crystal
- Backlighting: .....Green softglow display & buttons
- Units of measure:.....Feet and meters
- Readout: .....2.5 - 99.9', 100 to 200'
- Depth range min-max:.....2.5' - 200'
- Transducer type: .....Transom/glue in (in-hull)
- Transducer cable:.....30'
- Alarm signalling:.....Audible, red led, blinking LCDs
- Alarm range:.....3-200' full range
- Warranty: .....2 years

NRC D10D Clam pack
NRC P06 Thru-hull transducer

Hawkeye Digital Depth Sounder with Air/Water Temperature

The D10DX includes all the advanced sonar, depth alarm, and keel offset capabilities of the D10D, yet incorporates dual temperature displays. A simple press of a button gives instant access to water or air temperature readings via integrated sensors in both the transducer and head unit. Includes interchangeable black and white bezels and face plates, and also a sun cover to protect the LCD during storage.

NRC D10DX.01T Transom transducer
NRC D10DX.06T Thru-hull transducer

Hawkeye Mounting Brackets

MB01 allows the surface mount of any in dash depth sounder.

NRC MB01

Hawkeye PWC Depth Sounder

Features completely waterproof construction, micro-display housing, and ShootThru sonar technology. The D11S's compact micro-display housing can be easily mounted within reach on any vessel's dash, while Easy Touch Programming allows one-touch access to a built-in audible depth alarm. An auto-off feature even kills the power. Instant depth updates to the nearest 1/10th foot or meter, updated four times per second.

- Display dimensions: ..... 2.44 x 1.24"
- Display window size:..... 97" x .67"
- Display type:..... Polarized LCD
- Units of measure:..... Feet and meters
- Readout: ..... 1.5 - 99.9'
- Depth range min-max:..... 1.5' - 99.9'
- Transducer type: ..... Transom/glue in (in-hull)
- Transducer cable:..... 30'
- Alarm signalling:..... Audible, blinking LCD icons
- Depth alarm range: ..... 2 - 10'
- Waterproof rating: IPX7
- Warranty: ..... 2 years

NRC D11S

Uniden Digital Depth Sounders

- Transducer freq of 200 KHz
- Backlit LCD display
- Depth from 2.5 - 200 ft.
- Shallow water alarm
- 250 Watts of transmitting power
- 3 Optional transducers

UNI QT-206B Black with transom transducer
UNI QT-206WB White with transom transducer
UNI QT-206HP Black with in-hull transducer
UNI QT-206WHP White with in-hull transducer
UNI QT-206C Black with through-hull transducer

Faria Depth Sounders

Digital depth sounders can be bought with options of an in hull transducer or transom mount transducer.

- Depth range to 199' (61m)
- Reads depth in meters, fathoms and feet
- Keel offset, shallow/ deep water audio and visual alarms.

FAR 12850 Euro Black w/ transmount transducer
FAR 12851 Euro Black w/ in-hull transducer
FAR 12950 Euro White w/ transmount transducer
FAR 12951 Euro White w/ in-hull transducer
FAR 13850 Chesapeake White w/ transom transducer

► *Also See: Faria Depth Sounders pg 158*

Electronic Charts

JEPPESEN Marine

Welcome to Jeppesen Marine, home of award-winning C-Map electronic charts.

Around the world, more navigators trust C-Map to make their time on the water safer, easier and more enjoyable. Whether you prefer PC-based navigation or use GPS/chart plotters from leading manufacturers, C-Map is the only electronic chart solution you'll ever need.

Trust us for the most accurate, up-to-date cartography worldwide and powerful charting features to guide your sailing, cruising and fishing adventures. You can also count on our industry leading customer service and technical support to be there when you need it, so you can enjoy every day on the water.

MAX Technology

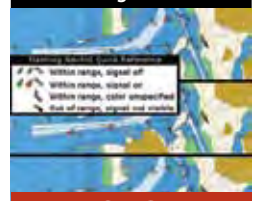
MAX electronic charts are available in several formats to suit your navigational needs...

C-card | SD-card | Disc

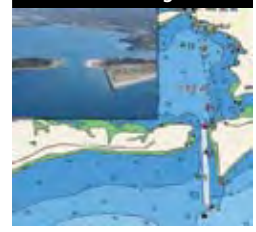
MAX Features

When it comes to MAX, there's no comparison. Advanced features make cruising, sailing and fishing easier, safer and more fun. With the most accurate chart detail, versatile features and a wealth of important value-added data, we take your boating enjoyment to the MAX!

Flashing NavAids



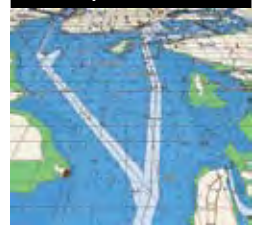
Photos & Diagrams



Dynamic Surface Currents

Guardian Alarm

Perspective View

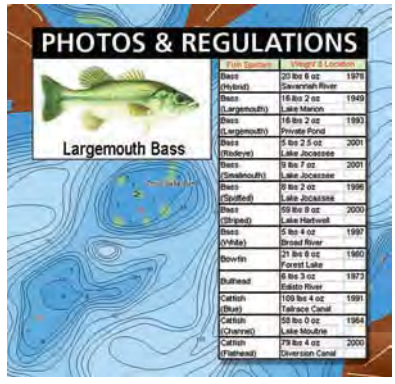


Detailed Marina Charts

MAX Lakes

Ultimate electronic maps for better freshwater fishing and hunting!

C-Map brings new power to your plotter with **MAX Lakes** freshwater electronic maps. Designed for freshwater fishing and hunting, **MAX Lakes** delivers the highest level of detail and value-added data not found on any other electronic map on the market. Plus the **MAX Lakes** database is constantly growing and updated yearly!



- Shaded Depth Areas (up to 16 colors)
- Points Of Interest (POIs)* such as campgrounds, shops, gas stations & more.
- State Fishing Regulations*
- State Hunting Regulations*
- Fish Identification Photos*
- Water Fowl Identification Photos*
- Interstate Highways, Secondary and Lake Roads
- Boat Ramps
- National Parks and Recreation Areas

Call for Details & Selection

North America

Wides
Standard Coverage

NA-M021	Canada North and East
NA-M022	U.S. East Coast and the Bahamas
NA-M023	U.S. Gulf Coast, Inland Rivers and the Great Lakes
NA-M024	U.S. West Coast and Hawaii
NA-M025	Canada West
NA-M026	Great Lakes and the Maritimes
NA-M027	Central America and the Caribbean
NA-M028	Alaska
SA-M500	Costa Rica to Chile and the Falklands
SA-M501	Gulf of Paria to Cape Horn

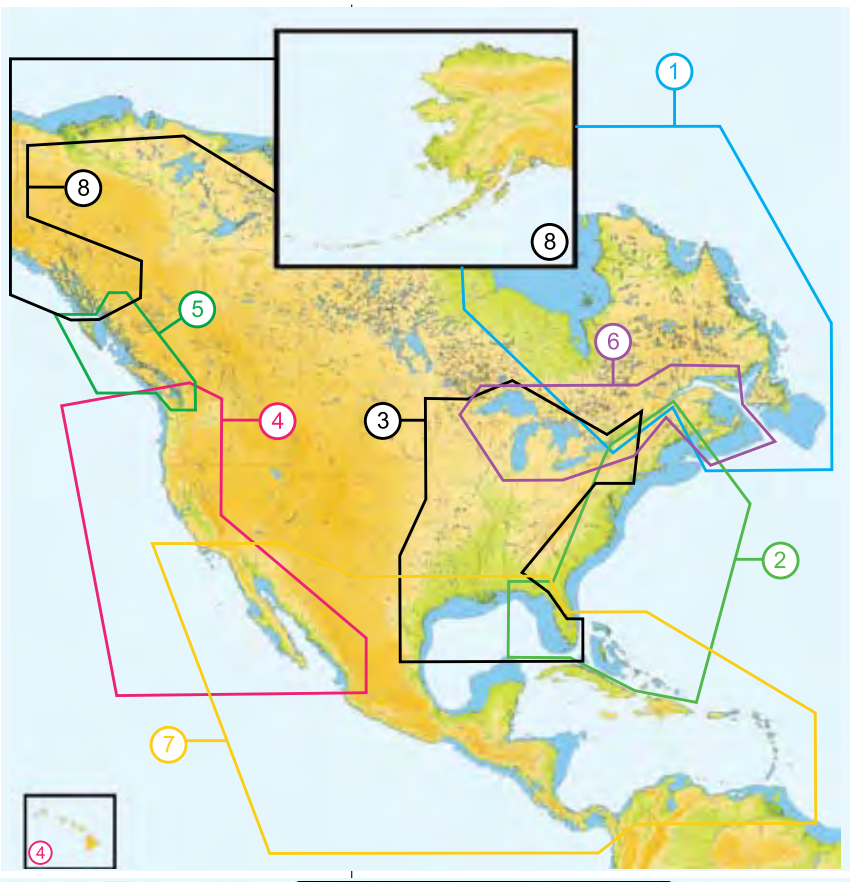
MegaWides
Larger Coverage

NA-M033	Atlantic Coast, Gulf and the Caribbean
NA-M034	Pacific Coast, Gulf and the Caribbean
SA-M503	South America, Gulf and the Caribbean

C-MAP
THE ELECTRONIC CHART STANDARD

MAX
C-MAP NT

MAX, the Ultimate Navigator, brings electronic charts to life. See NavAids on the screen exactly as they appear through your pilothouse window. Get at-a-glimpse information about current strength and direction. Even view an aerial photograph of an unfamiliar inlet before you enter. MAX gracefully combines unparalleled levels of chart accuracy and detail.



(1) NA-M021 Canada North and East

(2) NA-M022 U.S. East Coast and the Bahamas

(3) NA-M023 U.S. Gulf of Mexico, Inland Rivers and the Great Lakes

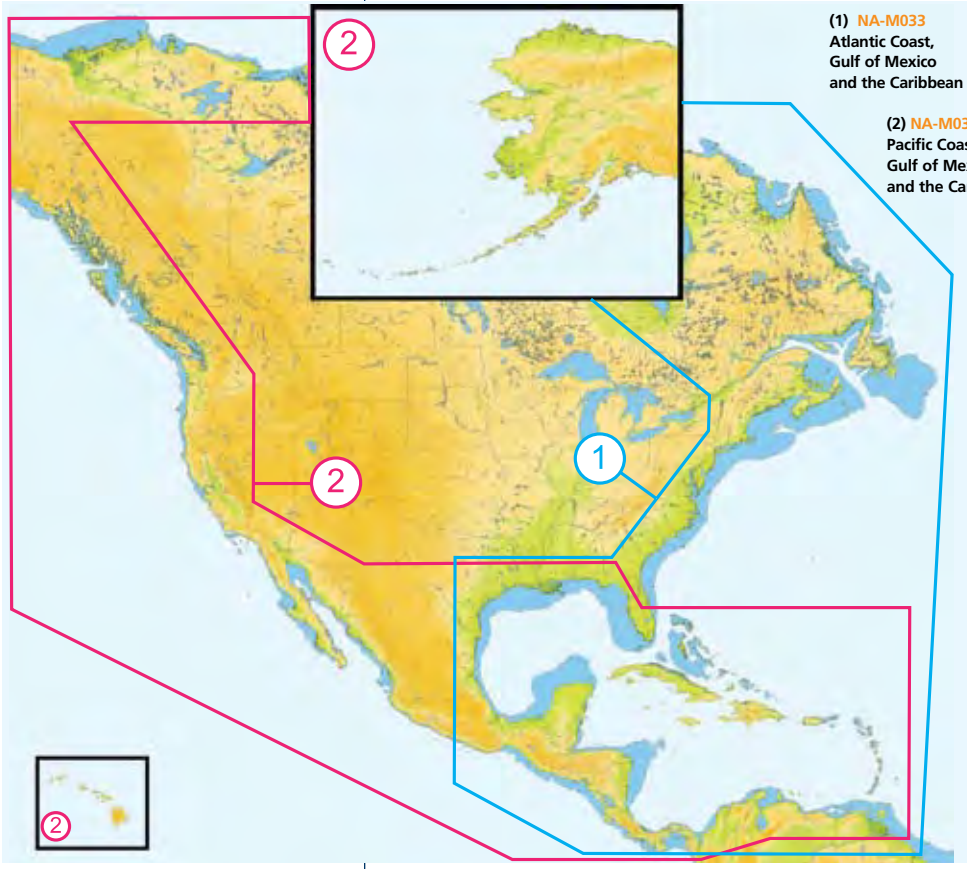
(4) NA-M024 U.S. West Coast and Hawaii

(5) NA-M025 Canada West

(6) NA-M026 Great Lakes & the Maritimes

(7) NA-M027 Central America and the Caribbean

(8) NA-M028 Alaska



(1) NA-M033 Atlantic Coast, Gulf of Mexico and the Caribbean

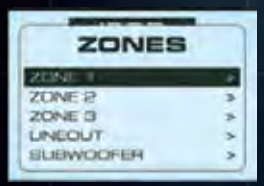
(2) NA-M034 Pacific Coast, Gulf of Mexico and the Caribbean

FUSION®

TRUE MARINE ENTERTAINMENT

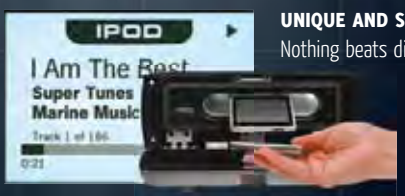
BETTER DESIGNED, BUILT AND BACKED

BETTER CONSTRUCTION
Designed specifically for the marine environment. An industry leading IPX5 360° waterproof rating, solid die cast chassis and sealed over-moulded cable looms ensure the ultimate in rugged design.



SUPERIOR ZONE TECHNOLOGY
Boats have multiple spaces that require a different sound level. The cockpit, flybridge or tower on a ski boat needs to be much louder than the salon. FUSION's unique Zone Technology is the only brand to deliver this capability.

BETTER DESIGN
Boats are a moving platform, that's why at FUSION our stereos feature large easy to read displays and keys, and a large rotary knob for primary functionality. You'll appreciate the design differences in a 6' swell.



UNIQUE AND SUPERIOR iPod INTERFACE
Nothing beats digital music on a boat. FUSION's unique software and iPod docking technology provides a superior user interface and protection for your iPod.

4x70 WATTS

HIGHER POWER OUTPUT, LESS POWER CONSUMPTION
There is no substitute for power in audio equipment. Most FUSION True Marine stereo's boast 4x70W output, 40% more powerful than the closest competitor. The unique class D amplifier requires nearly 40% less power consumption than competitive products.

BETTER BUILT MEANS BETTER BACKED
FUSION Electronics offers an industry-leading Limited Five Year Consumer Warranty on all True Marine products consisting of a three year warranty plus a two year warranty extension. For full terms and conditions visit www.fusionelectronics.com

MS-IP600
MARINE STEREO for iPod
World first iPod docking system ensures your iPod is waterproof, charging and secure inside the stereo while you are on the water. 4x70W. 3-Zone audio control. Large 2.7" dot matrix display.

» AM/FM/Sirius Ready.

MS-AV600
MARINE DVD STEREO
FUSION has produced an impressive stereo capable of playing CD/MP3 and DVD. 4x70W. 3-Zone audio control. Large 2.7" dot matrix display.

» AM/FM/Sirius Ready/DVD/CD/CD-R/CD-RW, MP3 playback.

MS-CD600
MARINE CD STEREO
The Marine CD Stereo includes the same great benefits as the MS-IP600, but features a CD/MP3 drive instead of an internal iPod dock.

» AM/FM/Sirius Ready/CD/CD-R/CD-RW, MP3 playback.

MS-RA200
MARINE STEREO
The palm size marine stereo featuring a VHF receiver is ideal for space conscious installs. 4x50W. 2-Zone audio control. Dot matrix display.

» AM/FM/Sirius Ready/VHF receiver, USB playback.

www.fusionelectronics.com

Specifications and design are subject to change without notice. *The IPX5 standard requires water projected in jets against the installed enclosure from any direction to have no harmful effects. For the latest news on supported iPod models visit www.fusionelectronics.com
iPod is a trademark of Apple Inc., registered in the U.S. and other countries. "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Fusion 600 Series Features

- 2.7" greyscale LCD display
- Powerful D-class 70W x 4 (Max)
- Multi-Zone control for different levels of volume in different areas of the boat from a single source of audio; 3 zone
- High quality AM/FM tuner
- Auxiliary in
- Electronic skip protection (MS-CD600, MS-AV600)
- 360° IPx5 waterproof rating
- Large rotary encoder and rubber back lit buttons
- Electronic bass / treble / balance control
- Fusion Alpha Search Technology (FAST) allows for quick navigation of your iPod data
- Zone line out (1 x stereo, 1 x subwoofer)
- Subwoofer level control
- 12/24 hour clock

Fusion Marine iPod Stereo

- A unique iPod docking system ensures your iPod is waterproof, charging and secure inside the stereo while you are on water
- AM/FM/SIRIUS Ready

FUE MS-IP600G

Fusion Marine CD Stereo

- This CD Stereo includes the same features as the MS-IP600, but has a CD/MP3 drive instead of an internal iPod dock
- CD / CD-R / CD-RW, MP3 playback
- AM/FM/SIRIUS Ready

FUE MS-CD600G

Fusion Marine DVD Stereo

- Stereo capable of playing CD/MP3 and DVD
- AM/FM/SIRIUS Ready
- Add the optional External Dock for the iPod to gain the benefit's of FUSION's iPod connectivity

FUE MS-AV600G

Fusion iPod Marine External Dock

The dock connects directly to your Marine Stereo, allowing full control and integration of your iPod through the Stereo. The bulkhead mount dock complies with IP65 waterproof and dust standards on the front of your unit, protecting your iPod from the harsh marine environment
Compatible with the CD Stereo (MS-CD600) & DVD Stereo (MS-AV600)

FUE MS-IPDOCK-G2

Fusion 600-Series Wired Remote

- Enables local control of the audio in each zone of your vessel
- Up to three remotes can be linked to the stereo
- Complies with IPX5 waterproof standard
- Plug & Play - no external power required
- Comes with 6m cable

FUE MS-WR600-C

Parts:

FUE MS-WR-600EXT6	6m extension cable for remote
FUE MS-WR-600Y	Remote Y cable for remote

THIS IS TRUE MARINE

FUSION's stamp of quality and assurance that our audio products are designed and engineered specifically for the marine environment.

TRUE 360˚ WATERPROOF DESIGN

Complies with IPx5 Waterproof standards*

INNOVATIVE MULTI-ZONE CONTROL

Fully adjustable volume control in all zones of the vessel.

USER FRIENDLY

User interface is intuitive and simple to use, while the recessed back lit keypad is large enough to view and operate in the roughest conditions.

TRUE DOCKING FOR iPod

Keeps your iPod waterproof, secure and protected. Complete iPod integration and control is provided through a replication of the iPod menu on the stereo display

SUPERIOR DIE-CAST CONSTRUCTION

SUPERIOR DISPLAY

Large, adjustable back lit LCD allows for accurate display of the iPod and Sirius interface.

ADVANCED POWER SAVING

High output efficiency and low battery drain through the latest D-Class Amplifier technology.

FUSION Electronics offers an industry-leading limited 5 year consumer warranty on a number of our True Marine products – consisting of a three year warranty plus a two year warranty extension. Conditions apply.

Compatible with the following iPods

- *iPod classic, 80GB 120GB 160GB (2007, 2009);*
- *iPod with video, 30GB 60GB 80GB;*
- *iPhone; iPhone 3G; iPhone 3GS*
- *iPod touch; iPod touch (2nd Gen);*
- *iPod nano (3nd Gen); iPod nano (4th Gen);*
- *iPod nano (5th Gen)*

Fusion Marine Stereo

- AM/FM/Sirius Ready
- VHF/Weather receive
- 50W x 4 amplifier
- IPx5 waterproof rating
- 2 zone audio control
- MS-IPDK and MS-IPDKUSB compatible
- 1 year warranty
- Faceplate: 6.2" x 2.7"

FUE MS-RA200

Fusion Marine Stereo Combo

- Complete with MS-RA200 Stereo (see above), MS-DKIPUSB iPod Dock and FSM-65 Speakers
- MS-DKIPUSB allows user to dock iPod in a safe, waterproof enclosure; slides in a tooled sleeve; no bouncing or banging while under way

FUE MS-RA200KTSD

Fusion 2-Way Speakers

- Complies with IP65 waterproof and dust standards
- Efficiency (1W/1M): 90dB
- Frequency response: 70Hz-22kHz
- Impedance: 4 Ohms
- Magnet type: Shielded
- Max Power (Watts): 200
- Tweeter type: Titanium dome

FUE MS-FR602 6"
- 200 watt
- Mounting depth: 75mm (3”)

FUE MS-FR702 7"
- 250 watt
- Mounting depth: 80mm (3.15”)

*Speakers come complete with three grille options (cloth, standard and sport) as well as three gel badge options.

Fusion 2-Way Speakers

Complies with IP65 waterproof and dust standards and features a fully sealed cross-over, magnet and tweeter housing with waterproof cone and surrounds.

- Efficiency (1W/1M): 87dB
- Frequency response: 90Hz-22kHz
- Impedance: 4 Ohms
- Magnet type: Shielded
- Max Power (watts): 120
- Mounting depth: 60mm (2.36")
- Tweeter type: Titanium dome

FUE MS-FR402 4”

Fusion 2-Way Speakers

- 6.5" poly carbon cones
- Water resistant construction
- Removable grill
- 25 oz magnet
- 1" high temperature aluminum voice coil
- 1" Mylar dome tweeter
- Power handling: 200 watts max.
- Frequency response: 80-20,000 Hz
- Sensitivity: 90dB
- 4 ohm impedance

FUE FSM-65

Fusion 2-Way Box Speakers

- 3.5" woofer
- 1" super titanium tweeter
- Fully sealed UV resistant cabinet
- Indoor/outdoor equalization switch
- Aluminum mesh grill and mounting brackets
- Power Handling: 120 watts max
- Frequency response: 90Hz-22KHz
- Sensitivity: 87dB
- Impedance: 4 ohms
- W: 18cm x H: 18cm x D: 14cm

FUE MS-BX402

D-Class technology is highly efficient amplifier technology and utilized in FUSION’s Marine Stereos (MS-CD600), (MS-AV600) and (MS-IP600) and Marine Zone Amplifier (MS-AM702).

It allows higher levels of output with less power use, resulting in lower battery drain. This enables you to listen to your music louder, and for longer, than a regular audio system without the concern of high levels of battery drain – a great advantage in the marine environment.

Fusion Internal Cube Speakers

FUSION’s internal cube speakers offer cabin-filling stereo performance from a small, versatile package. The dual pivot design enables a range of different installations; free standing, wall or ceiling mounted. Combine your cube speakers with any Fusion marine stereo and/or amplifier for pure audio reproduction.

Discrete Enclosures:
- ABS + UV speaker enclosures
- Feature a Dual Pivot Design enabling a mixture of direct and reflected cabin filling sound
- Includes mounting brackets

Midbass Technology:
- 2 x 2.5” Polypropylene Mica driver technology per dual cube

FUE MS-BX225

Fusion Subwoofer

Designed to produce unparalleled bass in the marine environment. Added to our audio system, marine subwoofers increase the bass level of your music or improve the overall sound quality. To operate your subwoofer correctly you must also install a 2 or 4 channel amplifier.

FUE MS-SW10 10” 400W

Fusion 8" Active Subwoofer

Discrete Enclosure:
- Rigid ABS + UV enclosure
- Tuned Bass reflex design
- Down firing subwoofer system
- Vertical & horizontal mounting options
- Included stainless 304 hardware

Amplifier:
- 210 Watts (MAX) amplifier
- Conformal coated PCB assembly
- Power / ground “plug and play” wiring system
- Level and bass frequency variable adjustment

High Output 8” Subwoofer:
- Injection molded Polypropylene cone assembly
- Long throw voice coil
- Frequency Response: 30Hz - 300Hz
- Impedance: 4 Ohms

FUE MS-AB108

► *Also See:* *Sirius Receiver pg 184*

Fusion Amplifiers

Add more power to your marine speakers by connecting a FUSION Marine Amplifier to your audio system, or install with a subwoofer to increase the bass level of your music. Amplifiers feature anti-corrosion treated PCB's and stainless steel end panels to maximize corrosion protection.

A 2 channel amplifier is used to power a subwoofer, increasing the level of your audio system

- Dimensions (W) x (H) x (D) 220mm x 260mm x 57.5mm
- 65 Watts RMS per channel @ 4 Ohms
- 100 Watts RMS per channel @ 2 Ohms
- 200 Watts RMS Bridged channel @ 4 Ohms

FUE FM-402 2 channel, 400 watt

A 4 channel amplifier can be used to power two pairs of speakers and a subwoofer.

- Dimensions (W) x (H) x (D) 220mm x 330mm x 57.5mm
- 65 Watts RMS per channel @ 4 Ohms
- 95 Watts RMS per channel @ 2 Ohms
- 200 Watts RMS Bridged channel x 2 @ 4 Ohms

FUE FM-504 4 channel, 500 watt

A Marine Zone Amplifier (MS-AM702) is needed if;

1) you are planning a multi-zoned marine audio system, comprising of three or four zones
2) you are planning an audio system that has more than four pairs of speakers

1 zone system ..... 1-4 pairs of speakers	*No zone amplifier needed*
1 zone system ..... More than 4 pairs of speakers	*Zone amplifier needed*
2 zone system ..... 1-4 pairs of speakers	*No zone amplifier needed*
2 zone system ..... More than 4 pairs of speakers	*Zone amplifier needed*
3 zone system	*Zone amplifier needed*
4 zone system	*Zone amplifier needed*

Fusion Zone Amplifier

The Zone Amplifier is designed to support the multi-zone technology of the marine stereo unit. This amplifier is small, enabling discrete installation and when combined with the marine stereo unit provides the platform with a true multi-zone audio system. Marine stereo units have the capability to run up to four pairs of speakers.
You will also need to install a Marine Zone Amplifier if your sound system has more than four pairs of speakers

- High Pass Crossover 60Hz–600Hz
- Max Power Rating (Watts): D-Class 70 Watts
- Operating Range 10 -16 volts DC
- Ratings per Channel 20 Watts RMS @ 4 ohms per channel: 33 Watts RMS @ 2 ohms per channel
- 2 Channel
- 2 Ohm Stable
- Water resistant design
- Conformal coated PCB
- Audio detect selectable function the amplifier turns on when audio is detected and goes to sleep / low power mode when audio is not present
- Selectable high pass/ full range setting
- Variable high pass filter
- Small and discrete size: 128 x 78 x 51mm

FUE MS-AM702

FUSION's Marine Multi-Zone technology allows you to create a truly customised audio solution, purpose built for your vessel.

Creating multiple independent audio 'Zones', provides an entertainment solution that everyone on board can enjoy - party with loud music on the fly bridge while the girls relax below with quieter music in the saloon.
Control the audio settings for all Zones through the Marine Stereo, or alternatively customise the audio system by installing a Wired Remote Control in each zone of the vessel.

Fusion Stereo Cover

Fully sealed waterproof cover with a tinted polycarbonate front panel. Compatible with dual shaft, Din & removable Din size radios. Stainless steel hardware included.

FUE F-MC

Fusion Remote Control Y Connector

Enables the connection of multiple Marine Remote Control (MS-WR100) to your 500 Series Marine Stereo. Required to utilize Fusion's multi-zone technology when installing Wired Remotes in each of your audio zones.

FUE MS-WR-100Y

Fusion Stereo Housing

Fully sealed body, waterproof cover with a tinted polycarbonate front panel. Compatible with dual shaft, Din & removable Din size radios. Multi angle bracket. Stainless steel hardware included.

- D: 10.25", W: 9", H: 3.75"

FUE F-MH

Jensen Stereo Stereo & Speakers

Features:
- AM/FM with CD/CD-R/R
- 160 watts
- Conformal coated circuit boards
- Blue LED display
- UV stable faceplate
- Front auxiliary input jack
- 10 Second CD ESP (Electronic Skip Protection)
- Weatherproof radio housing
- Spring loaded flip-up door
- Dimensions: 9-5/8" W x 4-3/8" H

Speakers:
- 6.5" coaxial speakers
- 60 watts
- One piece basket design
- Includes speaker mounting hardware package

JEN CPM510

Jensen Marine Stereo & Speakers

- AM/FM/SIRIUS Ready
- Storage pocket with AUX input Positive LCD display; waterproof face
- Sirius satellite ready (tuner sold separately)
- 160 watts (40W x 4)
- MSR180 stereo/AMS602B speakers

JEN MSR180RTL

Jensen Marine Modular Stereo

Forget the weatherproof housing, this modular design consists of a compact full function, waterproof commander (IPX6 rated) with compact, high tech styling and a remotely mounted tuner/amp unit. Conformal coated circuit boards, rubber keypad controls and UV resistant front panel resist harsh marine conditions such as humidity, salt air, and moisture and fight corrosion.

- AM/FM/iPod Ready/Sirius Ready
- 200W power
- USB feature allows connection of jump drives
- 1.0 gigabyte of on board memory for music storage
- Separate waterproof (IPX5) tuner/amp module can be remotely located
- Sirius satellite radio ready (tuner sold separately)
- Full iPod controls (adapter cable sold separately)
- Zero memory current draw
- Dot matrix positive LCD display with blue backlight
- US/Euro frequency
- Wired remote ready

JEN MSR2107

Accessories:

JEN JIPDCBL12 iPod adapter cable

Jensen Marine Stereo

- AM/FM/CD/iPod Ready/ Sirius Ready
- 160 watts
- Sirius satellite ready (tuner sold separately)
- Full iPod controls (adapter cable sold separately)
- Plays CD-A/CD-R/RW
- 40 second CD electronic skip protection (ESP)
- Zero memory current draw
- Dot matrix positive LCD display with blue backlight

JEN MSR3007

Accessories:

JEN JIPDCBL12 iPod adapter cable

Jensen Marine Stereo

- The MSR7007 is unlike anything the marine industry has ever been offered. This unit combines the latest cutting edge audio features in a waterproof marine design and is developed from the ground up to meet the unique needs of the industry.
- AM/FM/CD Player/iPod Ready/Sirius Ready
- 200W output power (MOSEF)
- Waterproof faceplate (IPX5) and water resistant/sealed chassis
- 40 seconds electronic skip protection (CD)
- MP3/WMA compatible
- Radio broadcast data system
- NOAA weatherband with weather alert
- Wired remote ready (MWR75, MWR100, and MRF27)
- Multiple line LCD display
- Rear aux-in, pre-amp output
- Low battery (voltage) warning
- Zero current memory draw
- 1 DIN chassis

JEN MSR7007

Accessories:

JEN JIPDCBL12 iPod adapter cable

► *Also See: Sirius Receiver pg 184*

Jensen Marine Speakers

- 150 watts peak (50W RMS)
- Conforms to ASTM B117 standard for salt and moisture resistance
- Certified to be ignition protected in accordance with US Coast Guard standard 33CFR183.410
- Flush mount speaker with UV stable plastic grille
- Magnetically shielded to prevent disruption of marine instrumentation
- Marine grade 6-1/2” polypropylene woofer cone w/ UV resistant polymer material to resist cracking and discoloration
- 19mm soft dome tweeter
- Gold plated speaker terminals and stainless steel hardware
- 11 oz. magnet
- Usable frequency: 50Hz-20kHz
- Sensitivity: 91 dB
- Impedance: 4 Ohms
- Mounting Depth: 3-7/16”

JEN MS6501 6-1/2"

Jensen Dual Cone Marine Speakers

- 150 watts peak (50W RMS)
- Conforms to ASTM B117 standard for salt and moisture resistance
- Certified to be ignition protected in accordance with US Coast Guard standard 33CFR183.410
- Flush mount speaker with UV stable plastic grille
- Magnetically shielded to prevent disruption of marine instrumentation
- Marine grade 6-1/2” polypropylene woofer cone w/ UV resistant polymer material to resist cracking and discoloration
- 19mm soft dome tweeter
- Gold plated speaker terminals and stainless steel hardware
- 11 oz. magnet
- Usable frequency: 50Hz-20kHz
- Sensitivity: 91 dB
- Impedance: 4 Ohms
- Mounting Depth: 3-7/16”

JEN MS6151DC 6-1/2"

Jensen Sirius Receiver Generation 3

- New Sirius 3.0 technology
- Includes mounting hardware and 15' data cable
- Two-wire hookup: antenna and data cable

JEN SCC1BL

*Antenna Sold Separately

► *Also See*: *Sirius Antenna pg 203*

Jensen AM/FM Antenna

Rubber mast antenna.

JEN 118-1067

Jensen Waterproof Marine Housing

A gimbal mount, water resistant housing unit for securing standard DIN marine stereo systems. The unit is developed for easy universal installation, reliability, and precise fit. Extra side pocket for iPod or MP3 player.

JEN MGH300

Jensen Weatherproof Marine Housing

A weatherproof housing designed specifically for marine use. Features a spring loaded, flip-up door with a smoke coloured window. Support self in rear of housing for greater stability.

- W: 9-5/8” x H:4-3/8”

JEN MRH211W White
JEN MRH211B Black

Jensen Aux, MP3 Input & Accessories

Connect your iPod/MP3 player to your Jensen stereo.

JEN JPORT

Y connector

JEN MWRCYBL

17' Remote extension cable

JEN MWREXT

USB & auxiliary audio input jack

JEN JENAUX

Shakespeare 2-1/4" External Speaker

- Mylar cone in a compact white housing
- 4-ohm. speaker for input power of up to 5 watts (RMS)
- Comes with a ratchet action mounting bracket, hardware mounting kit and six feet of cable with "mini phone" plug installed

SHA ES-2

Shakespeare Deluxe External Speakers

- A four-inch, 4-ohm, speaker with Mylar cone and white plastic cabinet
- Maximum input power is 8 watts (RMS)
- Comes with a swivel mounting bracket, hardware mounting kit and six feet of cable with “mini-phone” plug installed

SHA ES-4

ES-4P Same features as the ES-4 but with a built-in amplifier with volume, tone control and a switchable attenuator.

SHA ES-4P

Shakespeare Hailer Speaker

- 5" External hailer speaker
- White plastic horn speaker rated at 4 ohms
- 15 watts (RMS) input

SHA HS-5

Wesmar Hailer Speakers

- Weatherproof design, stainless steel hardware
- ABS plastic construction
- 8 Ohm, 30W Rms, 40W peak
- Vertical adjustable
- Dimensions: W: 8" x H: 4-3/4" x D: 9-1/2"

WES SPC15RP

- Weatherproof design with stainless steel hardware
- ABS plastic construction (off white)
- 8 Ohm, 40W Rms, 40W peak
- Metal mount with vertical and horizontal adjustment
- Can be flush mounted
- Dimensions: W: 6.5" x H: 11" x D: 8-1/2"

WES SPC40RP

Sailing Specialties VHF Storage Box

- Acrylic capped ABS lockable box
- Stainless steel hinge
- Starboard door with S/S door restraint
- Lockable slam latch
- 9-3/8” W x 12-3/4” H x 11-1/4” H

SSI 47605000

Sea-Dog Microphone Clip

- 304 Stainless steel
- 1-7/8" x 1"

SED 329990-1

Newmar Intercoms

The PI-10 model is offered for larger vessels where multiple station calling capability is desired. With the PI-10 system in place, communication can take place between up to 10 different stations. Any station can be individually selected and called by any other station. The phone base features 10 numbered call-buttons and a label is provided for identifying the different stations. The PI-10 model is sold individually so that the system can be sized to requirements. 12 volt power source required.

NEW PI-10-BLACK
NEW PI-10-WHITE

Newmar Intercom Sets

A two station, 12 volt intercom system makes for simple communication between the bridge, galley, engine room or staterooms. The system comes complete with 2 intercoms, 40' of hook-up wire and all the necessary hardware.

NEW PI-2SET-BLK	Black, 2-station set
NEW PI-2-SET-IVY	Ivory, 2-station set
NEW PI-2-BLACK	Black, phone only

Interconnect Wire

For PI-2 (2 station) systems, use 5 conductor wire. (Included in PI-2 set.) For Multi -Station systems, use 15 conductor wire. Minimum recommended wire: 22 AWG.

- Sold per foot

NEW 22-15 15 conductor (22-15)

WHERE PERFORMANCE MEETS VALUE.

ATLANTIS 250G

ATLANTIS 250BK

Handheld Radio with NOAA Emergency Weather Alert

NEW!

MHS125

Floating Handheld Submersible Radio with Emergency Strobe

MHS75

Handheld Submersible Radio with Large, Easy to Read Display

VOYAGER

Smallest Handheld Submersible Radio NOAA Emergency Weather Alert with S.A.M.E.

Uniden advanced marine technology. | www.uniden.com

SOLARA DSC BK

VHF Fixed Mount
Submersible Radio

NEW!

UM415

VHF Fixed Mount
CLASS D
Submersible Radio

(AVAILABLE MAY, 2010)

Uniden
A World Without Wires

©2010 Uniden America Corporation, Fort Worth, Texas.

Uniden Solara DSC VHF Radio

- All channel scan
- USA/International/Canadian marine channels
- DSC capability including distress and individual calling
- Submersible - meets the JIS7 standards
- Rubber gripped microphone
- NOAA weather channels
- Large backlit display for enhanced night vision
- 3 year water protection warranty

UNI SOLARA-DSC White
UNI SOLARA-DSC-BK Black

Accessories:
UNI FMB322B Flush mount faceplate, black
UNI FMB322W Flush mount faceplate, white

Uniden UM-415 VHF Radio

- All USA, Canadian and international marine channels
- Rugged speaker microphone with channel, up/down, scan and 16/9 keys
- S.A.M.E. emergency/weather alert
- 1/25 watt transmit power
- Class D DSC
- Easy-to-use intuitive menus in full dot matrix display
- Large backlit display for enhanced night vision
- Programmable channel scan means you never miss a call
- 10 weather channels
- NMEA0183 input and output
- Operating temperature range: -20°c To +50°c (-4°f To +122°f)
- External speaker capable (40 ohm)
- Size: 6.25" W x 2.5" H x 6.0" D
- 3 year warranty protection

UNI UM-415 White
UNI UM-415 Black

Uniden Whamx4 Wireless Remote

- Compatible with the UM-Series
- Full function wireless 2.4GHz
- Add up to 4 remotes
- Full intercom with up to two radio stations
- Call wham to wham up to .5 Miles apart
- DSC (digital selective calling)
- Inductive charging - no metal contacts to corrode
- S.A.M.E. Weather alert - specific area message encoding
- Accepts optional VOX headset
- Triple Watch Plus
- 2-Way hailer control
- Rechargeable NiMH battery and charger included
- JIS7 rated, completely submersible
- 3 year water protection warranty
- Belt clip included

UNI WHAM-4 White
UNI WHAM-4BK Black

Parts:
UNI BBTY0566001 Battery pack

Uniden UM-425 VHF Radio

- Ultra compact construction saves valuable space and allows for convenient mounting
- Full dot matrix display with easy-to-use intuitive menus
- All USA/International/Canadian marine channels
- DSC Including distress button, position send and request
- Quik Command One-Touch Ch 16/9 Key on Mic
- Backlit keypad - is easy to use in low-light
- Triple Watch Plus monitor emergency channel 16 and 9
- User can assign names to all marine channels for quicker reference
- Memory scan - scans all channels saved in memory
- Weather alert - NOAA weather signal
- Public address - one switch allows you to select PA or normal marine radio operations
- JIS7 Rated - completely submersible
- 3 year water protection warranty

UNI UM-425 White
UNI UM-425-BK Black

Furuno VHF Radio

- All U.S., international channels and NOAA weather channels available
- Easy channel selection with large rotary control
- Triple watch on selected channel while monitoring channel 16 and 70
- DSC
- Quick access to channel 16/9 key
- Add a second station by adding the FM3010 remote mic.

FUR FM-3000

Accessories:
FUR FM-3010 2nd station mic
FUR FM-3040 Flush mount kit

Uniden PRO 510-XL CB Radio

- Channel display
- Automatic noise limiter
- 4 Segment LED S/RF meter
- Adjustable squelch & volume

UNI PRO 510-XL

Uniden MHS-125 VHF Radio

- Rugged chassis
- JIS 8
- Strobe light
- Floats
- Includes 1000 mAh battery
- Includes alkaline battery tray
- AC, DC chargers and charger cradle
- 3 year water protection warranty

UNI MHS-125 Grey

Uniden MHS-75 VHF Radio

The durable MHS75 VHF Handheld Radio from Uniden offers a compact design and is rated JIS8 submersible. Offering superior receiver performance, the MHS75 VHF Handheld Radio features dual, trip and quad watch, memory channel scan and weather alert function.

- Compact design
- JIS8 submersible
- Dual/triple/quad watch
- Memory channel scan
- Weather alert
- DC clip-on charger
- Runs 11 hours on rechargeable lithium ion battery (included)
- 3 year water protection warranty

UNI MHS-75

Uniden Atlantis-250 VHF Radio

- USA/International & Canadian marine channels
- JIS4/CFR46 waterproof level
- 1/5 watt switchable
- Ni-MH and alkaline battery capability
- Instant channel 16/9/Triple watch
- Back lit L.C.D. display & key pad
- N.O.A.A. weather channels with weather alert
- Memory channel scan
- Comes complete with AC/DC charger
- 3 year water protection warranty

UNI ATLANTIS-250G Grey
UNI ATLANTIS250BK Black

Accessories:

UNI BADG0892-001 AC adaptor-Atlantis-250
UNI BP-250 Battery pack, BP250
UNI BP-250BK Battery pack, 250BK
UNI HHSPM Speaker microphone
UNI BATY0467-001 Antenna, black
UNI BHATL250-BK Battery holder
UNI PCLTD DC adapter

Uniden Voyager VHF Radio

Worlds smallest portable VHF radio is durable, reliable and made for any marine activity

- AC & DC adapter and charging cradle included
- Meets JIS7 waterproof specifications
- Lithium-ion battery
- Rubber grips/seal
- N.O.A.A. Weather channels with weather alert
- S.A.M.E. Weather alert - specific area message encoding
- Triple watch plus - allows you to monitor emergency channel 16 and 9, another user selectable channel plus weather alert
- USA/International/Canadian marine channels
- 1/5 Watt transmit power
- Memory scan
- Optional speaker/microphone
- 3 year water protection warranty

UNI VOYAGER

Accessories:

UNI BP-VOY Battery pack
UNI HHSPM Speaker microphone
UNI BATG0478-001 Antenna
UNI HH-VTA-85 Drop in charger

Uniden MHS-350 VHF Radio

Features a huge LCD display housed in a die-cast aluminum case.

- USA, International and CDN marine channels
- NOAA Emergency/Weather Alert with S.A.M.E.
- 1/5 watt power settings
- JIS7 submersible rated and designed to get wet
- Two 1100 mAH batteries for up to 28 hours of operation
- Triple Watch/Programmable Scan
- Unique rubber grip design that won't slip
- 3 year warranty

UNI MHS350

Accessories:

UNI BBTY0513001 Battery pack

Shakespeare®

GALAXY™ XP

Low-loss ethafoam spacer for strong mechanical support

Stranded, high-quality tinned copper inner conductor maximizes signal strength

High-quality, silver-plated brass outer element for extended life, maximum efficiency and superior mechanical strength

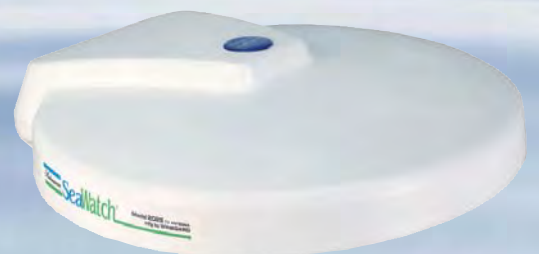
Exclusive white fiberglass seals out moisture to prevent corrosion
Rugged, high-gloss, non-yellowing finish assures long-lasting beauty

Low-loss polyethylene dielectric

Stainless steel ferrule resists corrosion

Ultra efficient, silver-plated brass choking sleeve suppresses cable radiation for maximum on-air signal

Flexible coax that has higher power capabilities, less loss per foot, UV stable jacketing, stranded copper core, and copper shielding to help maximize antenna performance



www.shakespeare-marine.com

VHF
HF/SSB
CELLULAR
AM/FM
CB
MARINE TV
SATELLITE RADIO

Shakespeare Antenna Considerations

What boat? In choosing an antenna for your boat, the first consideration is the boat itself, as well as what type of boating you do with it. If yours is a simple fishing boat that would be dwarfed by a 23-foot antenna, then of course the longer, better, higher-gain antennas are out of the question. If yours is one of the luxurious boats with the multiple decks, then that 23-footer might not even do. Remember, though, that the important consideration is not just the size of the boat, but what you do with it. If you never take your 90-footer out of Lake Fishbitten, then you don't need a huge antenna, after all. And it's not likely that you'll take your bass boat Pacific island hopping.

What kind of boating do you do? How much range do you really need from your radio? The farther you venture from shore the longer reach you'll need from your radio - and thus from your antenna - to communicate with base stations like the Coast Guard. The farther out you go, the farther you have to reach to communicate with other boats, too. If yours is a fishing vessel, and you need to communicate with others in your fleet who are some distance away, you'll need a large antenna, high up. For VHF, output power is limited to 25 watts. So, the antenna has to "reach" with its antenna gain, a function of antenna height, length, and quality.

Antenna Gain Shakespeare's VHF antennas come in gain categories, like 3dB, 9dB, etc. This is a measure of how efficient the antenna is with the signal you feed it, but it depends a great deal on the length of the antenna. The gain of an antenna is stated in decibels (dB) of effective radiated power. Gain is an increase (or even a decrease) in ERP. You do not get antenna gain from any so-called amplifiers built into the antenna, and it does not mean you can put more than the maximum legal 25 watts into a VHF antenna. You only get dB gain from longer, more efficient antennas. High gain factors are 6dB, 9dB, and thereabouts. Unity means no antenna gain - a multiplier of "one."

Shakespeare Emergency VHF Antenna

Stores itself in a yellow, metal tube that hangs up where it's handy. The tube becomes part of the mount when you set up the antenna. Includes 20' of RG-174 mini coax with a PL-259 connector.

- Self-contained
- Convenient hanger for easy storage
- Sealed, tin-plated copper wire coil
- One section
- Built-in mount
- Closed 9" long, open 16"

SHA 5910

Shakespeare The Stowaway Emergency VHF Flex Antenna 1/4 Wave Whip

Comes packed in a 12" weather-resistant, plastic tube which can "stow away" in an easy-to-reach location for instant emergency capability if your main antenna becomes broken or disabled. Complete with 12' cable, connector, and rubber suction cup for fast, easy mounting to any smooth horizontal surface.

- Flexible vinyl outer covering
- 10" overall length
- Velcro strips for storage included

SHA 5911

Shakespeare Sailboat Racers VHF Antenna

- Super light-weight black stainless steel antenna
- Gold-plated connector
- End-fed, center-loaded design
- Black L-bracket included for mast mounting
- One 15" section

SHA 5216

Shakespeare 36" Stainless Steel Skinny Mini VHF Antenna

This compact, lightweight antenna is ideal for vessels where space is limited - bass boats and fishing vessels, for example. Its chrome plated brass canister minimizes de-tuning. Cable and PL-259 connector included.

- VHF marine band 3dB
- 3 foot stainless steel whip
- Sealed, tin-plated copper wire coil
- Requires mount with centre hole for passage of the supplied 15' RG-58 cable
- One section

SHA 5250

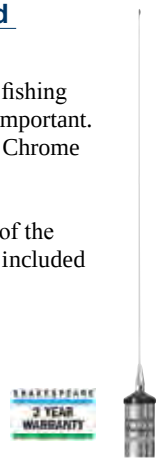
Skinny Mini VHF AIS Antenna

Designed to meet the broader bandwidth requirements of all popular AIS transceivers, this antenna mounts with ease. Its compact size will be welcome aboard any vessel. Chrome plated brass canister minimizes de-tuning.

- Built for AIS transceivers

SHA 5250-AIS

Shakespeare 36" Low Profile End-Fed 1/2 Wave VHF Antennas



The perfect choice for bass boats, centre console fishing boats, or any vessel where compact size is most important. Comes with a standard-duty stainless steel whip. Chrome plated brass canister minimizes de-tuning.

- Sealed, tin-plated copper wirecoil
- Requires mount with centre hole for passage of the supplied 15' RG-58 cable. PL-259 connector included
- Stainless steel whip

SHA 5240-R Standard whip
SHA 5241-R Heavy duty whip

Shakespeare 36" Squatty Body End-Fed 1/2 Wave VHF Antennas

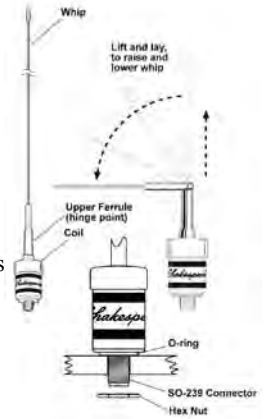
A favourite with sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting.

- Hermetically sealed, tin-plated copper wire coil
- Stainless steel body and whip
- SO-239 connector
- Mount: Stainless steel “L” bracket (supplied)

SHA 5215
Same features as the 5215 but comes complete with 60' of low-loss RG-8/X cable and a PL259 connector

SHA 5215C-X
SHA 5215L/BRKT “L” Bracket for 5215

Shakespeare 36" Low Profile End-Fed 1/2 Wave HD Lift-n-Lay Whip VHF Antenna



A 3dB base load antenna with a three-foot stainless steel whip that Lifts ‘n Lays down, out of the way, for fishing, trailering, boat covers, or storage. The Lift-n-Lay feature makes the antenna extra easy to set up and lay down. Superb value, performance, and convenience.

- Sealed, copper wire coil
- Extra heavy duty stainless steel whip (36") minimizes flexing at high speeds
- Mounts by passing the antenna’s SO-239 connector through horizontal surfaces up to 1/2" thick
- Coax and PL-259 connector (sold separately)
- L-bracket included for mast mounting.
- One section

SHA 5247A

Shakespeare 5' Centre-Fed 1/2 Wave Coaxial Sleeve VHF Antenna

Shakespeare’s most economical 5’ antenna package. A great, basic 3dB antenna for day-to-day cruising in calm to moderate seas. The antenna has an integral polycarbonate Lift-n-Lay mount for deck mounting, and comes with a levelling plate and installation hardware.

- Brass and copper elements
- Includes a PL-259 connect & 15' RG58 cable
- Integral deck mount
- One section

SHA 420

Shakespeare 8' Collinear Phased 5/8 Wave VHF Antenna

A favourite of maritime professionals, this rugged antenna boasts an extra heavy-duty radome and powerful internal elements for reliable service day after day under the most demanding conditions.

- Brass and copper elements
- Chrome-plated brass ferrule with 1”-14 thread
- Includes a PL-259 connect & 20' RG58 cable
- One section

SHA 5202

Shakespeare5' Centre-Fed 1/2 Wave Coaxial Sleeve VHF Antenna

Outstanding, basic 3dB antenna designed to reduce signal fading in rough seas. This is probably the most widely used antenna on Coast Guard vessels.

- Brass and copper elements
- Chrome-plated brass ferrule with 1”-14 thread
- Includes a PL-259 connect & 15' RG58 cable
- One section

SHA 396-1

Shakespeare 8' End-Fed w/ Matching Stub VHF Antennas

An economical and lightweight, self-supporting antenna for good communications where range is not the predominant factor.

- Quality copper cable elements
- Chrome-plated brass ferrule with 1”-14 thread
- Includes a PL-259 connect & 15' RG58 cable
- One section

SHA 5206-C Chrome brass ferrule
SHA 5206-N Nylon ferrule
For matching CB antenna order **SHA 5205**

Part #	Length	Gain	Max. Input Watts	SWR Nominally	Bandwidth within 2.0:1 SWR	DC Ground	Termination
SHA 420	5'	3dB	50	1.5:1 @ 156.8 MHz	5MHz	No	15' RG-58 cable
SHA 396-1	5'	3dB	50	1.5:1 @ 156.8 MHz	5MHz	No	15' RG-58 cable
SHA 5202	8'	6dB	50	1.5:1 @ 156.8 MHz	3MHz	Yes	20' RG-58 cable
SHA 5206-C & N	8'	6dB	50	1.3:1 @ 156.8 MHz	3MHz	No	15' RG-58 cable
SHA 5215	36"	3dB	50	1.5:1 @ 156.8 MHz	7MHz	No	SO-239
SHA 5215C-X	36"	3dB	50	1.5:1 @ 156.8 MHz	7MHz	No	60' RG-8X cable
SHA 5240-R	36"	3dB	50	1.5:1 @ 156.8 MHz	7MHz	No	15' RG-58 cable
SHA 5911	10"	Unity	25	N/A	N/A	Yes	12' Cable

Shakespeare Centennial Series VHF Antennas

The Centennial antennas have a high-gloss, polyurethane finish that won't turn yellow in the sun.

- Brass and copper elements
- Chrome-plated brass ferrule with 1”-14 thread
- Includes 15’ RG-58 cable and a PL-259 connector
- One 8' section

Part #	Type	Gain	Max. Input	SWR Nominally	Bandwidth	DC Ground
SHA 5101	End-fed with matching stub	6dB	50 Watts	1.5:1 @ 156.8 MHz	5MHz	Yes
SHA 5102	6db collinear phased 5/8-wave	6dB	50 Watts	1.5:1 @ 156.8 MHz	5MHz	No

PHASE III

In A Class by Itself

The new line of Phase III marine antennas has taken years of painstaking development. The process entailed not just designing the antennas, but also engineering the custom-made tools and equipment for manufacturing. The result is the finest, highest performing series of marine antennas Shakespeare have ever built.

Construction Goes High-Tech

Phase III antennas embody the ultimate in antenna design, construction and performance. We intend them for discerning, tech-conscious boaters who won't settle for less than the best, most versatile and most attractive antennas. For highest electrical efficiency, performance, and longevity, Phase III VHF and Cellular antennas start with silver-plated elements. They also feature Shakespeare's unique low-angle radiation that puts your signal where it matters most. All of our extra heavy-duty Phase III radomes are completely foam-filled. This sophisticated technique, which is no easy feat to manufacture, isolates the radiators from vibration and moisture for long, dependable service. Antenna mounting has also been designed for more versatility. Phase III's newly engineered ferrules accommodate a variety of installation possibilities, including standard 1" - 14 thread mounts, and strapping or clamping to a mast. The ferrule, its coupling ring, and the "N" connector at the base allow the antennas to be quickly and easily installed without re-routing your existing coax.

Lasting Luxury

Great design and innovative construction demanded high-end looks that exemplify luxury and lasting beauty, while providing superb durability and the very best in UV stability. Phase III antennas get under way with a new Shakespeare gleaming white finish that is protected by our new, proprietary, aircraft grade high-gloss clear coating. Our new ferrules and fittings enhance the Phase III beauty with versatility and mirror-finished stainless steel. We take pride in building these antennas with the utmost attention to detail. Our skilled craftsmen hand assemble the antennas individually, and they hand solder every electrical connection.

PHASE III VHF Antennas

- 4'
- 3 DB gain
- Center-fed 1/2 wave coaxial sleeve

PHA 6400

- 8'
- 6 DB gain
- Center-fed 5/8 wave coaxial sleeve

PHA 6225

PHASE III Cellular Antennas

PHA 6410 4'
PHA 6237 8'

PHASE III AM/FM Antennas

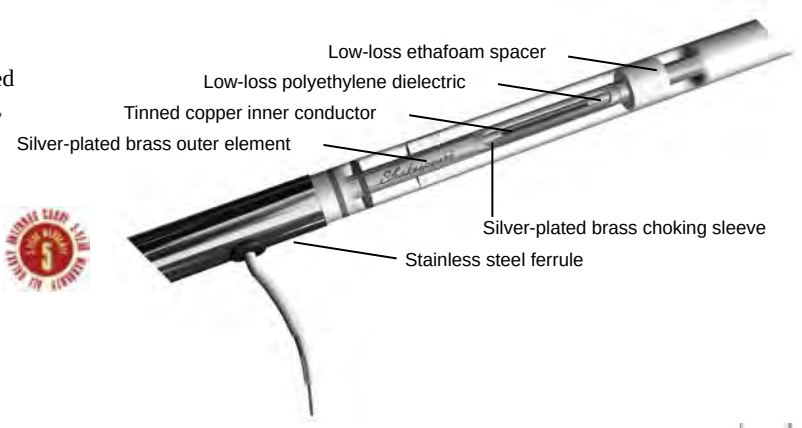
- 800/900 MHz and 1900MHz cellular
- Handles all digital, analog and PCS cellular bands
- Brass chocking sleeve eliminates pattern distortion

PHA 6420 4'
PHA 6235 8'

The Galaxy-XP Silver Series

Galaxy performance starts with innovative and sophisticated electrical engineering. Then, highly skilled craftsmen hand assemble and hand finish each antenna, using only the best materials.

Guaranteed
Galaxy quality comes with a quality guarantee: five years.



Shakespeare Silver Series VHF Antennas

For the toughest of the tough jobs, Shakespeare introduces the extra edge of silver plated elements on world-renowned, world class, Galaxy marine VHF antennas. It's designed to withstand the wind forces and high speeds when used on hard tops, T-tops, and radar arches. The antenna's legendary Galaxy high-gloss finish assures that it's welcome aboard.

- Copper and silver plated brass elements for extraordinary range and efficiency
- Stainless steel ferrule with standard 1"-14 thread
- 20' RG-8/X low-loss cable plus a PL-259 connector
- Maximum output is 150 watts

Part #	Type	Length	Gain	SWR Nominally	Bandwidth within 2.0:1 VSWR	DC Grounding
SHA 5225-XP	Collinear-phased 5/8 wave elements	8'	6dB	1.5: 1@ 156.8MHz	3 MHz	Yes
SHA 5400-XP	Center-fed 1/2 wave coaxial sleeve	4'	3dB	1.5: 1@ 156.8MHz	3 MHz	No

Breakthrough Antenna Technology

Shakespeare Galaxy Eliminator Series VHF Antennas

These antennas implement Shakespeare's innovative filtering technology that helps get pager and Out-of-Band interference under control in installations demanding taller, higher-gain antennas. In busy radio areas like harbours, the antenna's filter can make a big difference in how much "RF garbage" you hear. Working with your radio's own rejection circuitry, it can actually improve the fidelity of your VHF radio.

- Greatly reduces pager and intermod interference
- Patented – special, high efficiency filter built-in
- Brass and copper elements
- Stainless steel ferrule with standard 1"-14-thread
- Includes 20' RG-8/X cable and a PL-259 connector
- Filter loss: less than 0.25dB
- Maximum input: 30 Watts
- Suggested mount: 409-R or 410-R mounting kit (sold separately)

Part #	Finish	Type	Length	Gain	DC Ground
SHA 5018-FLT	White	Phased 1/2 wave elements in a collinear array	17.5' in two sections	9dB	No
SHA 5225-FLT	White	Collinear phased 5/8 wave elements	8'	6dB	Yes

Shakespeare 4' Galaxy 'Little Giant' 3dB VHF Antenna

Center-fed 1/2 wave coaxial sleeve. An outstanding, 4' antenna of heavy-duty construction for general purpose communications. It's at home on T-tops, hard-tops and other positions aloft, where its small size can deliver maximum range.

- Brass and copper elements to maximize range
- Stainless steel ferrule w/ standard 1"-14 thread
- Includes 20' RG-8/X cable and a PL-259 connector

Max. Power Input: ..... 50 watts
SWR:..... Less than 1.5:1 at 156.8 MHz
Bandwidth:..... 5 MHz within 2.0:1 VSWR
DC Grounding:..... *No

SHA 5400-XT

Shakespeare 4' Galaxy AIS 'Little Giant' 3dB VHF Antenna

Specially designed to meet the broader bandwidth requirements of all popular AIS transceivers, Shakespeare's Galaxy Style 5396-AIS antenna features commercial-grade fibreglass construction. It's at home on T-tops, hard-tops and other positions aloft, where its small size can deliver maximum range.

- Center-fed 1/2 wave coaxial sleeve
- Brass and copper elements to maximize range
- Stainless steel ferrule w/ standard 1"-14 thread
- Includes 20' RG-8/X cable and a PL-259 connector

Max. Power Input: ..... 50 watts
SWR:..... Less than 1.5:1 at 156.8 MHz
Bandwidth:..... 5 MHz within 2.0:1 VSWR
DC Grounding:..... Yes

SHA 5396-AIS

Shakespeare Galaxy VHF Antennas

- Brass and copper elements
- Stainless steel ferrule with standard 1"-14 thread
- 20' RG-8/X low-loss cable plus a PL-259 connector
- SWR Nominally: 1.5:1 at 156.8 MHz

These professional quality antennas are performance powerhouses. They are extra strong – sturdy enough to be self-supporting, even in high winds and high speeds.

Part #	Type	Length	Gain	Max. Power	Bandwidth	DC Ground	Mount
SHA 5018	Phased 1/2 wave elements in a collinear array with chocking sleeve to suppress cable radiation	17' 6" 2-Section	9dB	150 Watts	3 MHz	No	409-R or 410-R
SHA 5230	5/8 wave over 1/2 wave dipole	14' 2-Section	8dB	200 Watts	3 MHz	Yes	
SHA 5309-R	Phased 1/2 wave elements in collinear array with a band spread matching sleeve and a choking stub to suppress cable radiation	23' 2-Section	9dB	150 Watts	5 MHz	No	409-R or 410-R
SHA 5399	Collinear-phased 5/8 wave with two coaxial chokes to suppress cable radiation	9' 6" 2-Section	6dB	100 Watts	3 MHz	Yes	4187-HD or 452
SHA HS-2774-1	Broadband VHF designed for military, commercial, law enforcement, and disaster readiness. No tuning or ground plane required	6'5" 1 Section	3.3-4.3	125 Watts	Maximized for 136-174 MHz	Yes	4187-HD or 410-R

FYI

Here is a formula for calculating the range of an antenna:
Square Root of Height (in feet) above water x 1.42 = Range in miles

Remember to perform the calculation for BOTH vessels, then add the results to get the range between two vessels.

Shakespeare 2' Galaxy 3dB VHF Antenna

Low-profile, end-fed 1/2 wave. Designed especially for rigid inflatables and other applications requiring a short overall length, the black stainless steel whip has a helical design to avoid excessive whipping. A unique solderless connector at the base provides for easy installation and removal.

- Durable all black finish
- "L" bracket mount supplied
- 20' black RG-58 coax cable and a PL-259 connector

Max. Power Input: ..... 50 watts
SWR: ..... less than 1.5:1 at 156.8 MHz
Bandwidth: ..... 6 MHz within 2.0:1 VSWR
Polarization: ..... Vertical
Impedance: ..... 50 ohms

SHA 5415

Shakespeare 8' Galaxy 'Extra Tough' 6dB VHF Antenna

Collinear-phased 5/8 wave elements
Shakespeare's best – maximizes range and quality in a great looking antenna. The new5225-XT is Shakespeare's classic Style 5225 in a new, stronger, stiffer radome. It's extra tough for use on hard tops, T-tops, radar arches, or wherever its extra resistance to high winds and high speeds is welcome.

- Brass and copper elements
- Stainless steel ferrule with standard 1"-14 thread
- 20' RG-8/X low-loss cable plus a PL-259 connector
- Twin to: Galaxy Style 5223 CB antenna

Max. Power Input: .....100 watts
SWR: .....nominally 1.5:1 at 156.8 MHz
Bandwidth: .....3 MHz within 2.0:1 VSWR
DC Grounding:.....*Yes

SHA 5225-XT.....White
SHA 5226-XT.....Black

Shakespeare 23' Commercial Ocean Twin VHF Antenna

Phased 1/2-wave elements in a collinear array with choking stub to suppress cable radiation and a band spread matching sleeve. Its nine phased 1/2-wave element, 23-foot design means long distance communications. Includes 15' RG-58 cable and a PL-259 connector.
Two sections: Base 162" & Tip 114"

- Frequency: .....VHF Marine band
- SWR:.....1.5:1 @156.8 MHz
- Impedance:.....50 Ohms
- Gain:.....9 dB
- Max. Input: .....25 Watts
- DC Ground: .....NO

SHA 5208-R

Shakespeare 3' Little Giant CB Antennas

4050-B

4051

Great for bass boats and other boats where fishing over a short antenna is more desirable than greater range. Coil is permanently sealed in Shakespeare white fibreglass. Includes 7' cable and a PL-259 connector which can not be cut or altered but can be lengthened with suitable connectors and extension coax (each sold separately)

- Frequency: .....27 MHz Citizens Band
- SWR Nominally: ..2.0:1 or less @channel 19
- Unity Gain
- One section
- 4050-B Mount: Integral polycarbonate Lift 'n Lay mount with installation hardware

SHA 4050-B Polycarbonate Lift-n-Lay Mount
SHA 4051 Nylon ferrule with standard 1in-14 thread

Shakespeare 23' Commercial Ocean Twin SSB Antenna

This award-winning performer is often referred to as "the standard of the industry" by virtue of its capabilities and popularity. Conductors run the full length of antenna (no loading coil).

- Chrome-plated brass ferrules
- Side feed termination band
- Maximum input: .....1 kW
- Bandwidth.....10.8 MHz
- Frequency: .....2-30 MHz w/ tuner
- Suggested mount: .....409 or 410
- 23' in two sections: .....Base 162" & Tip 112"

SHA 390

Shakespeare 23' Commercial Ocean Twin SSB Antenna

A rugged performer for day to day communications. Conductors run the full length and are permanently sealed in Shakespeare white fibreglass.

- Chrome-plated brass ferrules
- Side feed termination band
- Maximum input: .....1 kW
- Bandwidth.....10.8 MHz
- Frequency: .....2-30 MHz w/ tuner
- Suggested mount: .....409 or 410
- 23' in two sections: .....Base 162" & Tip 114"
- Twin to: Style 5208 VHF

SHA 5308-R

Shakespeare 23' HF/SSB Whip Galaxy 'Style' Antenna

Full-length conductors, no loading coil.
This hand-crafted antenna is a top performer for commercial vessels, yachts and larger sportfishing boats. Easily handles up to 1 kw input power.

- Brass and copper elements
- Stainless steel ferrule with standard 1”-14 thread
- Side feed termination band
- Suggested mount: Shakespeare Style 409 or 410 Mounting Kit (pictured mount not included)
- Two sections: Base 172”, Tip 105”
- Twin to: Galaxy Style 5309-A VHF
- Max. Power Input: .....1 kw
- Resonant frequency: .....10.8 MHz
- Frequency: .....2-30 MHz with a tuner

SHA 5310-R

Shakespeare 8' 'Salty Mate' CB Antenna

- Coil is permanently sealed in Shakespeare’s white fibreglass
- Includes 7' cable and PL-259 connector which cannot be cut or altered but can be lengthened with suitable connectors and 50-ohm coax (sold separately)
- Utility Gain
- Maximum output: ..... 25 Watts
- Frequency: ..... 27 MHz Citizens band
- DC Ground: ..... Yes
- Single section
- Chrome-plated brass ferrule with standard 1"-14 thread

5205/5207

SHA 5205

Shakespeare 3' AM/FM Antenna

This combination antenna features a distributive load for super signal pulling power. The coil is permanently sealed in Shakespeare’s white fibreglass.

- Includes 10’ RG-62 coax with Motorola plug
- Integrated Lift-n-Lay mount w/ hardware
- One section, 39” overall length

SHA 4350 Lift-n-Lay

Same as the 4350 above but with 1"-14 thread for standard mount.

SHA 4351

Shakespeare AM/FM Antenna

This innovative design lets you put an AM/FM antenna on your boat where it won’t get in the way. It is a clear tape with embedded antenna elements. Its permanent adhesive strip lets you attach it quickly and easily onto your boat’s windshield or any smooth, nonmetallic surface. It comes with a 6’ cable and attached “Motorola type” plug.

SHA 4353

Shakespeare 4' Galaxy Little Giant AM/FM

This Little Giant is in charge of the entertainment. Its sturdy construction and outstanding performance make it an excellent choice for T-tops, hard-tops and other elevated mounting positions. Extra rigid, extra tough.

- Copper elements to maximize range
- Stainless steel ferrule with standard 1"-14 thread
- Includes 12' RG-62 cable with Motorola type plug installed
- One section

SHA 5420-XT

Shakespeare 8' Centennial Series AM/FM

AM/FM antenna puts high-end features where high-end does the most good. When you’re far from your favourite stations, this antenna helps bring them in loud and clear.

- Chrome-plated brass ferrule with 1”-14 thread
- Includes Motorola connector & 15' cable

SHA 5120

Shakespeare Galaxy Dual Band 3dB Gain Cellular Antenna

800/900 MHz and 1900 MHz Cellular.
These antennas cover digital, analog and PCS cell phone bands. Electrical connections are hand soldered for reliability. Use one of Shakespeare’s CPA Series adapters to connect your portable cell phone.

- Brass and copper elements to maximize range
- Stainless steel ferrule w/ standard 1”-14 thread
- Includes 25’ of Lo-Max cable & “TNC” connector

SWR: ..... Less than 1.5:1 at 852.65 MHz;
Less than 1.5:1 at 1918.7 MHz;
Bandwidth: ..... 96 MHz within 2.0:1 VSWR (800/900 MHz)
140 MHz within 2.0:1 VSWR (1900 MHz)
Frequency: ..... Dual Band 800-900 MHz, 1800-1900 MHz

SHA 5410-XT 4'
SHA 5237-XT* 8'

* A brass choking sleeve eliminates pattern distortion due to cable radiation.

Shakespeare 2' Galaxy 8dB Wi-Fi Antenna

This Shakespeare Galaxy antenna brings Wi-Fi to the marine environment. It features an N-type connector and a special sleeve-collar ferrule design that accommodates larger diameter coax. Moreover, should the antenna ever need to be replaced, it can be done without rerunning the coax.

- 2.4 GHz band
- Hi-tech PCB copper elements
- Stainless steel 1"- 14 thread ferrule with special sleeve-collar design
- One section

SHA 5248

Shakespeare 8' Navigator Loran Antenna

Fibreglass whip with chromed brass fitting, 3/8" - 24 male threads. Recommended by virtually all Loran manufacturers.

SHA 4208

Shakespeare 8' 'Sea Mate' CB Antenna

This outstanding antenna can be tuned for minimum VSWR and optimum performance. A VSWR meter ART-3 (sold separately) is required for the tuning process.

- Continuous-loaded, end-fed 1/2-wave CB antenna
- Needs only 3/8" hole for passage of the coax
- Chrome-plated brass ferrule with standard 1in-14 thread
- Includes 15ft RG-58 cable, which can be cut to size, and a PL-259 connector
- Gain: Utility
- Maximum output: .....25 Watts
- Frequency: .....27 MHz Citizens band
- DC Ground: .....Yes
- Suggested mount: Use a Style 410-R Mounting Kit and a Style 4008 Extension Mast to form a 16ft antenna system

SHA 5207

Shakespeare CruiseNet Cellular Modem (Telus)

CruiseNet works just like the broadband connection at your home or office. Once installed, just connect your laptop and you are up and running, automatically connected to the high-speed cellular network.

- Send e-mails, surf the net, check online weather, and more right on your boat
- Send and receive e-mail
- Surf the net for online weather, news, and services
- Access remote surveillance and alarm systems
- Monitor your boat while you're away
- High-speed uploads and downloads

SHA CN-1100T Telus

- Dimensions: 4.6"L x 2.5"W x 1.4"H
- Weight: 0.7 lbs.
- Wireless WAN: EV-DO Rev. A with Fallback to EV-DO Rev. 0 and CDMA 1x
- Host Interfaces: Ethernet 10/100 Mbps RJ-45, RS-232 DB9 DCE (300-230400 baud)

All Cruisenet Systems include installation/activation instructions, quick-start user guide and user manual, plus a one-year subscription to CruiseNet Full-Throttle Web Accelerator Operates on 12 VDC ships power or 120 VAC, and includes AC power adapters and DC wire harness. SMA-TNC adapters also included. The CN-1100-T includes two detachable flex antennas.

With many types of mobile Internet access you must pay by the minute or by the amount of data you send. Not so with the CruiseNet. A flat monthly fee provides you unlimited, always-on, high-speed access to the Internet, e-mail and instant messaging.

Shakespeare Cell Phone Cables

Hook your cell phone up to ship's antenna. These cell phone adapter cables make the connection.

SHA CPA-120 Motorola 3000, 6500, A1688, CD920, CD928, DS8500, L2000, P8088, P8162, P8167, P8767, ST7760 ST7790, ST7868, STAR TAC, T8167, Timeport Series (Flip type), V2088, V3188, V3610, V3620, V3688, V8088, V8162

SHA CPA-123 LG 5200 Series, 5250, C-1500, VX-3200, VX-4400, VX-4600, VX-6000, VX-6100, VX-6190, VX-6290, VX-7000, VX-8000; for Motorola 120C, 120E, 120T, 120X, 182c, T190, T191, T193, V200, V235, V265, V300, V400, V505, V551, V600, V710; for Samsung SCH-1000, SCH-A310, SCH-A620, SCH-A670; for Nokia 3285i

SHA CPA-126 Audiovox CDM-8900, CDM-8910; for LG 4-NE1, VX-2000, VX-4500; for Motorola T720, T720g, T720i, T730c, T740; for Samsung SGH-E105; for Sanyo SCP-4700

SHA CPA-128 Motorola T721

SHA CPA-130 Nokia 232, 2110, 2120, 2160, 2190

SHA CPA-132 LG 110 Series, 510 Series, 520 Series, DM510, TM510, V111 Series, VX-1, VX-10; for Nokia 3285, 5110, 5120, 5160, 5165, 5180, 5180i, 5185i, 6110, 6120, 6150, 6160, 6190, 6210, 6310, 6340, 6340i, 6360, 7110, 7160, 7170; for Touchpoint 1100, 2200

Shakespeare Antenna Radio Tester

Unlike other meters in its class, the ART-3 tests receiver function as well as output power and VSWR (antenna efficiency). It is powered by an internal battery or can be connected to ships 12 VDC with the supplied power cable. Battery level can be checked at the flip of a switch.

- Frequency Range: 155-158 MHz
- RF Power Scale: 0 to 30 watts
- Impedance: 50 ohms
- Connectors: SO-239
- Tone: 1000 Hz
- RF Level: -115 dBM (approx.)
- Die-cast aluminum construction

SHA ART-3

Shakespeare Automatic Switch

This switch allows you to have two radios on one antenna. It mounts out of the way. When keying the microphone on one radio the AS-2 switches the antenna to it automatically.

SHA AS-2

Parts:

SHA 4079 1m RG-58 cable w/ connectors

► *Also See: Coaxial Connects pg 142*

Shakespeare AM/FM Marine Band Separator

Eliminate the need for separate AM/FM and VHF antennas. As well operate your AM/FM and VHF radio at the same time. Includes 10' of RG-62 coaxial cable and 3' of RG-58 VHF cable.

SHA 4357-S For base loaded antennas such as the 5215, 5240-R, 5241-R.

Shakespeare TV/AM/FM Stereo Band Separator

Complete with 12" cable and Motorola type plugs for proper connections. Works with any 75 ohm. TV antenna system.

SHA 4358

Shakespeare Cable Kits

For longer cables runs, pick the appropriate length Shakespeare SRC Series cable kit for your installation. Connectors come pre-installed on all cables. These cable kits must be run as a single piece and cannot be joined together.

- 50 feet of marine grade RG-58

SHA SRC-25 25'
SHA SRC-50 50'
SHA SRC-90 90'

► *Also See: Coaxial Cable pg 109*

Shakespeare Heavy Duty Extension Masts

Constructed of high quality white fibreglass and finished to match the Galaxy series of antennas. These extensions can be used to increase the height of the antenna, thus improving effective range and boost placement of an antenna above on-board obstructions. Stainless steel upper and lower ferrules with standard 1" thread.

SHA 5228 8 ft. long - 1-1/2" dia
SHA 5228-1 1 ft. long - 1" dia
SHA 5228-4 4 ft. long - 1-1/2" dia

Sea-Dog Antenna Mount Extension

- Investment cast 316 stainless steel
- Standard 1"-#14 thread

Part #	Length	Diameter	Tube Wall
SED 329532-1	12"	1-1/16"	13/16"
SED 329536-1	24"	1-1/16"	13/16"

Shakespeare Extension Accessories

- Heavy duty, chrome plated brass standoff
- Adjustable length 3 to 8"
- Use to clear overhang or other obstacles

SHA 4191

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1 foot, 1" thick white polycarbonate mast extension for light to moderate duty applications.

SHA 4364

Heavy duty stainless steel extension masts.
1"-14 thread male and female fittings.

SHA 4700	6" Extension
SHA 4700-1	1' Extension
SHA 4700-2	2' Extension

4700

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4 foot moderate duty mast extension. Made from white polycarbonate fittings. Standard 1"-14 thread, upper male, lower female. Actual length 50".

SHA 498

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8 foot moderate duty mast extension. Needs a 410 mounting kit. Made from white polycarbonate fittings. Standard 1"-14 thread, upper male, lower female. Actual length 98".

SHA 499

4-1/2" stainless steel mast extension.
Standard 1"-14 thread.

SHA 4006

---

8 foot heavy duty mast extension. 1-1/2" dia. extension mast of strong fibreglass. Use a 410 mounting kit. Chrome plated brass upper and lower ferrules. Standard 1"-14 thread. Actual length 91".

SHA 4008

Same as 4008 but shorter. Actual length 50".

SHA 4008-4

Shakespeare Tube Mounted Antenna Base

Slip on to a 1" diameter pipe for a 1"-14 thread male fitting. Can be used with any 1" O.D. stainless tubing. Attaches easily with set screws.

SHA 4705

Sea-Dog Tube Mounted Antenna Base

Investment cast 316 stainless steel. can be used with any 1" O.D. stainless tubing allowing for custom mount.

SED 329520-1

Sea-Dog Antenna Hook

Made from 304 Stainless Steel. This hook keeps your antenna positioned in the lay down position while your boat is not in use.

SED 329790-1

Shakespeare Antenna Hook

Antenna stainless steel lay down hook.
J-shaped hook supports up to 1-1/2" dia. when in lay down position.

SHA 4712

Shakespeare Standoff Mounting Bracket

A rugged, angled mast mount and stand-off bracket in one. Fits all Shakespeare low-profile, base-loaded antennas.

- Attaches easily to any flat, vertical surface
- Corrosion resistant black plastic
- Mounting screws not included

SHA 4716

Sea-Dog Antenna Standoff Bracket

This bracket holds antennas in place when running and also provides additional support. Made from nylon and comes complete with stainless steel mounting hardware.

SED 329780-1

Shakespeare Stand-Off Bracket

Insulated standoff bracket made of white moulded plastic. Use on antennas of 1", 1-1/8" and 1-1/2" dia. Includes mounting hardware.

SHA 408-R

Shakespeare Mounting Kits

Combines a versatile heavy duty swivel mount base with a 408 standoff bracket.
- For antennas of 1", 1-1/8" and 1-1/2" dia.
- Chrome plated
- Includes mounting hardware

SHA 409-R

Combines a deck/side swivel mount base with a moulded upper bracket.
- For antennas of 1", 1-1/8" and 1-1/2" dia.
- Includes mounting hardware

SHA 410-R

Shakespeare 4 Way Antenna Mount

Versatile 4 way action antenna mount that fits almost any mounting location and permits antenna lay down in desired direction. For deck or side mounting when used with a standoff bracket.
- Accept any antenna 1"-14 thread

SHA 407

Shakespeare Lift-N-Lay Mount

Positive snap action. Comes with levelling plate. Standard 1"-14 thread. Has a 3/8"-24 thread brass insert. Handles antennas to 8'. Polycarbonate.

SHA 495-B

Sea-Dog Antenna Mount

Injection molded nylon with dual swivelling mounts for full adjustability. Open base design allows the antenna wire to be fed directly through the base eliminating the need for a cable outlet.
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-1/2" x L: 3-5/8" x H: 5-5/8"

SED 329100-1

Sea-Dog Antenna Mount

- Injection molded nylon ratchet
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-9/16" x L: 3-5/8" x H: 4-3/4"
- Colour - White

SED 329130-1

Shakespeare Antenna Mount

- Solid nylon
- Four-way ratchet design with handle
- For deck or bulkhead mounting
- Standard 1"-14 thread male threads
- For use with small antennas

The 4186 is not for use with antennas longer than 8' in self-supporting mode.

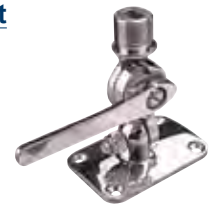
SHA 4186U

Sea-Dog Antenna Base

Die cast chrome plated zinc makes it the affordable choice for fresh water environments. Also designed with an integral feed system for Loran cable.
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-1/8" x L: 3-5/8" x H: 4-3/4"

SED 329300-1

Sea-Dog Adjustable Antenna Mount



316 Investment Cast Stainless Steel. Dual swivelling mounts allow for full adjustment. Has integral feed system for Loran cable.
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-1/2" x L: 2-15/16" x H: 4-1/2"

SED 329230-1

Shakespeare Antenna Ratchet Mount

Stainless steel antenna base uses a four way ratchet design with locking handle for deck or side mount. Standard 1"-#14 thread, 9/32" hole for cable feed. HD version (with extra strength and rigidity) was developed to accommodate the Galaxy series antennas.

SHA 4187
SHA 4187HD

Sea-Dog Heavy Duty Deck Mounted Antenna Mount

316 Investment cast stainless steel. This is a heavy duty version of the above 329230. It has been enhanced with extra height and weight.
- Accept any antenna 1"-14 thread
- Use 1/4" F.H. screw
- W: 2-1/4" x L: 3-3/4" x H: 5-15/16"

SED 329235-1

Shakespeare Antenna Ratchet Mount

- Stainless steel
- New designer look, four-way ratchet mount
- Its simple lines come from a nutless design
- Standard 1”-14 threads and a special cable slot that eliminates removal of most factory installed connectors
- Bolt holes: 5/16” dia,, 3” x 1-1/2" on centre

SHA 5187

Shakespeare Rail Mount Antenna Base

- Stainless steel
- Ratchet action for quick and easy installation onto 7/8"-1" railing
- For antennas up to 8' in length
- Standard 1"-14 thread
- 9/32" hole for cable feed

SHA 4190

Shakespeare Rail Mount Antenna Base

- Stainless steel
- Ratchet action for quick and easy installation on to 7/8"-1" (4188S) or 1" to 1-1/2" (4188SL) railing
- For antennas up to 8' in length
- Standard 1"-14 thread
- 9/32"' hole for cable feed

SHA 4188S 7/8" - 1"
SHA 4188SL 1" - 1-1/2"

Shakespeare Nylon Ratchet Rail Mount

This sturdy plastic mount attaches to 7/8" and 1" horizontal rails and has a side slot in the 1"-14 thread section for antennas with coax exiting the bottom centre of their ferrule.

- Accommodates cable
- Accept any antenna 1"-14 thread

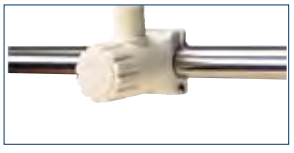
SHA 4722

Shakespeare Economy Nylon Ratchet Rail Mount

- Ratchet action for quick and easy installation on to 7/8"-1" railing
- Accept any antenna 1"-14 thread

SHA 4721

Sea-Dog Rail Mount Antenna Bracket

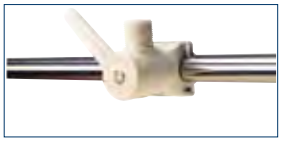


Made from injection molded nylon and comes complete with stainless steel screws.
Will fit rails 7/8" - 1", 3" high.

- Accept any antenna 1"-14 thread

SED 327149-1

Sea-Dog Rail Mount Antenna Bracket



Made from injection molded nylon and comes complete with stainless steel screws.
Will fit rails 7/8" - 1", 3-5/8" high.

- Accept any antenna 1"-14 thread

SED 327148-1

Shakespeare Sail Boat Mast Mount

Aluminum mast mount supplied with a 1-1/4" thread fitting for either the SeaWatch 2030 or 2020 antennas.

SHA 4366

Shakespeare Antenna Rail Mount

Economy stainless steel rail mount. Comes with adaptors to fit 7/8", 1 & 1-1/4" vertical or horizontal rails. For use with standard 1"-14 thread antennas. Can also be mounted on flat surfaces.

SHA 4720

Sea-Dog Fixed Antenna Base

- Accept any antenna 1"-14 thread
- Base diameter: 2-13/16"
- Use 1/4" RH fasteners

SED 329500-1

Shakespeare Flange Mount Nylon

- Low profile, 1" high mount
- Accept any antenna 1"-14 thread
- For GPS, marine TV and shorter antennas

SHA 4710 Stainless steel
SHA 4711 Nylon

Shakespeare Straight Antenna Base

- All stainless steel construction
- Accept any antenna 1"-14 thread
- 4" high
- Perfect for radar arches
- Can be used with a 4364 extension mast
- Use 1/4" fasteners

SHA 4365

Sea-Dog Straight Antenna Base

- All stainless steel construction
- Wire will feed through base
- Accept any antenna 1"-14 thread
- 4" high 2-7/8" base
- Use 1/4" fasteners

SED 329510-1

Shakespeare Mounting Shims

Shim kit for ratchet mounts consists of 4 shims, two each with front/back and side/side slope. Each shim adds a half-notch (5°) tilt. Stack them for extra height or for compound angles.

SHA 414

Sea-Dog Antenna Adapter

This adapter allows the mounting of a 3/8"-24 thread Loran whip onto standard 1" base.

SED 329550-1

Shakespeare SeaWatch 2025 14" Diameter Omnidirectional Marine TV Antenna System With Variable Gain Control

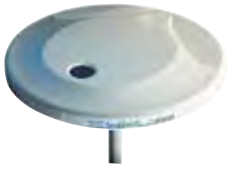
You get plenty of choices with the omnidirectional SeaWatch 2025 Marine TV antenna system. Its sophisticated design lets you adjust its amplification for best picture quality. Crank up the Gain to a full +20dB where the stations are weak, or attenuate -10dB where the signals are strong. A convenient knob on its control panel makes adjustment easy. The panel offers a wide choice of mounting options. You can flush mount it, surface mount it, or attach it to the set-top. You choose!

The Style 2025's antenna head is as mechanically advanced as its controller. Simply clamp it onto any 1" diameter pipe, extension mast, or straight mount. As an added convenience, this sleek and stylish Marine TV antenna also provides an Auxiliary Input for Cable or Satellite. When the 2025 is turned off, the auxiliary input is automatically connected to the TV. This unique and handy feature eliminates the external "A/B" switches required by other systems.

The 2025 comes complete with AC wall adaptor, 30' of ultra low loss RG-59 coax and gold-plated, screw-on "F" connectors.

SHA 2025

Shakespeare 14" Diameter Omnidirectional Marine TV Antenna



The ideal smaller marine TV antenna where styling and size are the predominant factors. Perfect for close-in or stronger signal areas. TV Antenna system includes antenna with nylon ferrule, AC/DC switchable power supply, 30' of ultra low loss RG-59 coax cable, and gold plated screw-on "F" type connectors.

- Omnidirectional antennas capture VHF, UHF, and FM point of the compass without aiming the antenna.
- 14-inch diameter
- Sleek and attractive
- 110vAC or 12/24 DC power
- Digital HDTV-ready

SHA 2020G

Shakespeare 21" Diameter Omnidirectional Marine TV Antenna

Designed specifically for maximum omnidirectional performance in the marine environment. TV Antenna system includes the antenna with built-in 1"-14 thread nylon ferrule, AC/DC switchable power supply, 30' of ultra low loss RG-59 coax cable, and gold plated screw-on "F" type connectors.

- Omnidirectional antennas capture VHF, UHF, and FM point of the compass without aiming the antenna.
- 21-inch diameter
- Sleek and attractive
- 110vAC or 12/24 DC power
- Digital HDTV-ready

SHA 2030G

Shakespeare Galaxy SRA-40 Satellite Radio Antenna

Digital Satellite Radio Antenna receives and amplifies the satellite signal. At a tiny 3.5-inch diameter, it's ideal for smaller vessels. The low profile, white plastic housing mounts in a variety of ways with or without the included pedestal mount (pictured). When mounted directly to the surface, the antenna accommodates surfaces up to 1 inch thick.

- 1.36" high (4" with pedestal)
- No separate power cable required
- 25-foot low-loss cable and connectors included
- White UV-stabilized ASA plastic housing
- 1 year limited warranty

SHA SRA-40	Includes SM31 mounting kit
Parts:	
SHA SM30	Surface mount kit
SHA SM31	Pedestal mount kit (sold with the SRA-40)

Shakespeare Galaxy SRA-25 Satellite Radio Antenna

Specially designed for smaller boats that ply inland waters, the SRA-25 sports an ultra-low-profile. Tiny as it is, it delivers plenty: weather, news, music, sports, and entertainment from Sirius Satellite Radio. The versatile SRA-25 accommodates a variety of mounting methods, with or without running its cable through the mounting surface. Comes with a 25-foot RG-174 cable. Attach to surfaces up to 1" thick via 9/16" diameter threaded shaft, or use the included SM-32 Surface Mounting Kit to secure the antenna to flat surfaces where access to the area underneath is difficult or impossible.

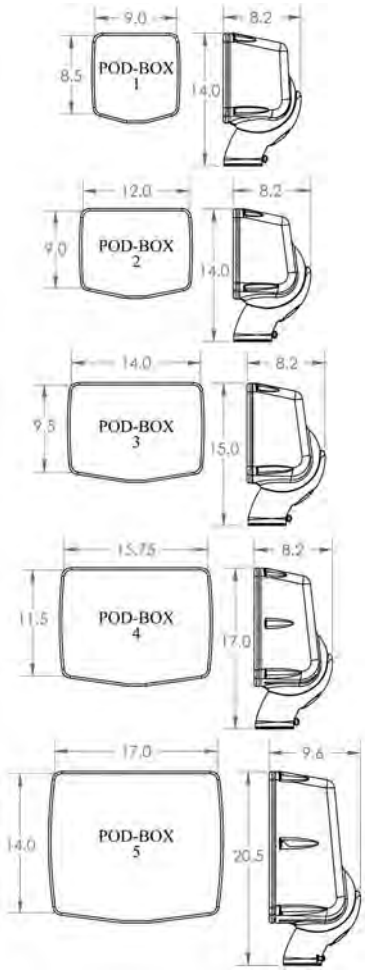
- H: 3/4" x W: 2-3/8" x L: 2"
- No separate power cable required
- Single-cable design for newer receivers
- Shakespeare Limited Warranty: 1 year

SHA SRA-25

Seaview Pod Display Housings

- Accommodate nearly all brands of marine electronics
- Fully adjustable mounting base for better viewing
- Can be mounted vertical or upside down

These Pods are constructed of high quality marine grade aluminum base and UV resistant white ABS plastic housing. The Seaview Pod Display Housings quickrelease handle feature allows for full adjustment horizontally, vertically, with tilt and provides a clean, professional look in your helm station. The unit's gasket ensures a water-tight and secure installation.
Pods carry a three year limited warranty.



Pre-cut for Displays

SVW PODW-2-RC80*	Raymarine E80 / C80 (white base)
SVW PODW-4-RC120*	Raymarine E120 / C120 (white base)
SVW PODW-3-RC90W*	Raymarine C90W / E90W (white base)
SVW PODW-4-RC120W*	Raymarine C120W / E120W (white base)
SVW PODW-2-G4008*	Garmin 4008 / 4208 (white base)
SVW PODW-4-G4012*	Garmin 4012 / 4212 (white base)
SVW PODW-2-G5008*	Garmin 5008 / 5208 (white base)
SVW PODW-4-G5012*	Garmin 5012 / 5212 (white base)
SVW PODW-4-G5015*	Garmin 5015 / 5215 (white base)
SVW PODW-3-FMFD8*	Furuno MFD8 (white base)
SVW PODW-4-FMFD12*	Furuno MFD12 / DCU12 (white base)
SVW PODW-4-FMU120*	Furuno MU120C (white base)
SVW PODW-1-LHDS5*	Lowrance HDS 5 (white base)
SVW PODW-1-LHDS7*	Lowrance HDS 7 (white base)
SVW PODW-2-LHDS8*	Lowrance HDS 8 (white base)
SVW PODW-3-LHDS10*	Lowrance HDS 10 (white base)
SVW PODW-3-SNX40*	Simrad Nx40 (white base)
SVW PODW-4-SNX45*	Simrad Nx45 (white base)
SVW PODW-2-NM84*	Northstar M84 (white base)
SVW PODW-4-NM121*	Northstar M121 (white base)

*Request Items

Seaview Standard Power Mounts

Forward mount

Power Mounts are constructed of high quality marine grade aluminum and treated with an epoxy primed then finished with brilliant white powder coated finish. Each unit has a waterproof radar cable gland positioned aft and below the top plate.

- Mounts have a 7” x 7" base
- 20° Forward leaning

SVW PMF-5R-7	5" (Raymarine), Braodband BR24
SVW PMF-5U-7	5" Universal (Furuno, JRC/Northstar, Koden, Sitex, Lowrance, Simrad, Nobeltec, Maptech 12-20" & 24" domes)

Seaview Power Mounts Plus w/ Light/GPS Bar option

Aft mount shown w/ optional LTB

All the same features as the Power Mount but also accepts the ***optional***: Universal light/GPS bar (LTB), hinge adapter, wedge or floodlight kit

- 20° AFT or FWD leaning profile
- Mounts with a 7” x 7" base

SVW PMA-5FJ-7L	5" (Furuno/JRC)
SVW PMA-5R-7L	5" (Raymarine), Braodband BR24
SVW PMA-5G-7L	5" (Garmin)
SVW PMA-5U-7L	5" (Universal) **+**
SVW PMA-5U-7	5" (Universal)
SVW PMA-5N-7L	5" (Simrad 18"-24", 25" Koden 25")
SVW PMA-10R-7L	10" (Raymarine), Braodband BR24
SVW PMA-10G-7L*	10" (Garmin)
SVW PMA-10U-7L	10" (Universal) **+**
SVW PMA-10N-7L	10" (Simrad 18"-24", 25" Koden 25")
SVW PMF-10FJ-7L	10" (Furuno/JRC 24"Dome)
SVW PMF-10U-7L	10" (Universal)
SVW PMA-16U-7L	16" (Universal)**+**
SVW PMF-5R-7L*	5" (Raymarine), Braodband BR24 20° forward leaning
SVW PMF-10R-7L*	10" (Raymarine), Braodband BR24 20° forward leaning

- Mounts with a 8” x 8" base

SVW PMA-24R-8L	24" (Raymarine), Braodband BR24
SVW PMA-24U-8L	24" (Universal) **+**

+ Universal: Furuno, JRC/Northstar, Koden, Sitex, Simrad Lowrance, Nobeltec, Maptech 12-20" & 24")

*Request Items

Seaview Open Array Radar Power Mounts

Aft open array mount w/ optional LTB-OA

Fits 3-1/2' to 6' open array antenna. Heavy-duty bolt-on light bar (LTB-OA) is sold separately. Accepts all power mount accessories.

- Mounts have a 8” x 8" base
- 20° Aft leaning profile

SVW PMA-6FO-8L*	Open array (Furuno 4')
SVW PMA-6GO-8L*	Open array (Garmin 4')
SVW PMA-6JO-8L	Open array (JRC 4')
SVW PMA-6RO-8L	Open array (Raymarine 4')

*Request Item

Seaview Satellite Pole Mounts

(AM-M3) AMA-W compatable

SVW AM-M3	3" diameter, 5" tall pole for (KVH M2/M3, Ray 37STV, Sea Tel Coastal 14 & Sea-King 9815 RJ)
SVW AP4B1*	4" diameter, 12" tall pole for (KVH 18", Ray 45STV, Sea Tel 20"-27" & Sea-King 9818 RJ)
SVW AM-M5*	3" diameter, 5" tall pole for (KVH M5, Ray 45STV, Seatel 18"-27" & Seaking 18")

*Request Item

Seaview Satellite Power Mounts

Constructed with high quality marine grade aluminum and treated with an epoxy primed then finished with a brilliant white powder coated finish.

- 20° Aft leaning profile

SVW PMA-12-10B	12" (KVH 18", Ray 45STV, SeaTel Coastal 14 & Sea-King 16")
SVW PMA-12-10M*	12" (KVH M2/M3, Ray STV, SeaTel 20"-27" & Sea-King 9818 RJ)
SVW PMA-18-10B*	18" (KVH 18", Ray 45STV, Sea Tel 20"-27" & Sea-King 9818 RJ)
SVW PMA-18-10M*	18" (KVH M2/M3, Ray STV, SeaTel 20"-27" & Sea-King 9818 RJ)

*Request Item

Please ask for a 2010 SEAVIEW Catalogue

Seaview Satellite Dual Power Mounts

- 20° Aft leaning profile
- Light bar sold separately

SVW PMA-DM1	Raymarine 45STV & KVH14, SeaTel, SeaKing
SVW PMA-DM1-M3*	Fits most domes and KVH M2/M3, SeaTel Coastal 14, SeaKing 1500HD & Raymarine 37STV
SVW PMA-DM2*	Dual mount for open array
SVW PMA-DM2-M3*	Dual mount for open array

*Request Items

Seaview Radar/Satcom Mast Platforms

12" to 18"

SVW SM-18-U	Universal +
SVW SM-18-R	For Raymarine, Garmin & , Braodband BR24 18" radars

24"

SVW SM-24-U	Universal
SVW SM-24-R	For Raymarine & Garmin 24" radars

25" to 28"

SVW SM-25-N	For Koden 25" & Simrad 24" radars

+ Universal: Furuno, JRC/Northstar, Koden, Sitex, Simrad Lowrance, Nobeltec, Maptech 12-20" & 24")

Satellite Dome

SVW SM-18-A	Fits KVH 15"-18", Raymarine 37/45STV, SeaKing 9815/9818RJ & Sea Tel 15"-20") Trawler masts only.

Satcom Mast Platform

SVW SM-10-A	Fits KVH Tracphone/Fleet 33/ SeaTel Wave Call 3000

Seaview Low Profile Satdome Adapters

Satellite adapters are constructed by Resin Transfer Molding, which produces a high strength composite part. Each adapter is pre-drilled to fit a complete range of Satcom/TV Antennas and is designed with a small mounting base for installation in limited areas.

SVW AMA-10	10" (For Trac 252)
SVW AMA-16*	KVH M2/M3, Raymarine 37STV, Seaking 9815RJ / 1500HD, Seatel Coastal 14 & Intellian i3
SVW AMA-18	18" (For KVH 18", Raymarine 45STV, Sea Tel 20"-27" & Sea-King 9818RJ)
SVW AMA-24	24" (For KVH 24" & Raymarine 60STV)
SVW AMA-GFX*	3" Tall Low Profile Satdome Adapter For KVH M1, Intellian i1 / i2, Furuno Fleet 55 / Felcom 50 & All Glomex Sadomes
SVW AMA-W	Adjustable wedge from 0°-12°

Seaview Radar Wedges

4° Radar wedges made from KingStarboard plastic designed to be used directly between the radome and the mounting surface when extra height is not required . This will compensate for deck angle or planing attitude of the boat.

SVW RW 4-1	Furuno, JRC, Simrad, Koden, Lowrance, Sitex & Maptech 12-18" radomes
SVW RW 4-2	2kW/4kW Raymarine, Garmin & 4kW Nobeltec, Koden, Maptech, Sitex & Simrad
SVW RW 4-6*	4kW Furuno, Northstar & JRC radomes

*Request Items

Seaview Power Mount Adapters & Accessories

Base Wedges:

SVW PM-W2-7	2° for 7" x 7" base
SVW PM-W4-7	4° for 7" x 7" base
SVW PM-W6-7	6° for 7" x 7" base

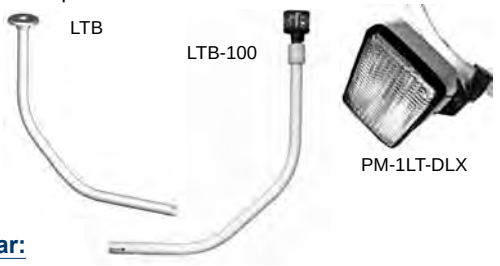
SVW PM-W2-8	2° for 8" x 8" base
SVW PM-W4-8	4° for 8" x 8" base
SVW PM-W6-8	6° for 8" x 8" base

PM-H7

Hinged Adapters:

SVW PM-H7	7" x 7" base for 5", 10" & 16" models
SVW PM-H8	8" x 8" base for 24" & 36" models

SVW SV-KNOB	Spare knob



PM-1LT-DLX

Light/GPS Bar:

SVW LTB	Light and/or GPS bar (no light included)
SVW LTB100	Light bar includes Perko 1197 masthead/all-round light
SVW LTB100-LED*	LED light bar
SVW DM-LTB	Light bar for all dual mounts
SVW DM-LTB-100*	Light bar for all dual mounts, w/ Perko light
SVW DM-LTB-BOX*	Light bar fits Aqua Series 40/41 light
SVW LTB-OA	Light bar f/open ray radar bracket

Flood Light Kit for LTB:

SVW PM-1LT-DLX	4" x 6" halogen light & S/S mount

PM-U1A

PM-U2A

LTB Adapters:

SVW PM-U1A	Dual mount adapter for light & GPS
SVW PM-U2A	Triple mount adapter for light & dual GPS

Please ask for a 2010 SEAVIEW Catalogue

Speedtech Windmates

Swiss-made impeller components, is water resistant, shockproof and floats. For long-range shooting, the unit can be tripod-mounted and uses the optional wind tunnel, Model SM-WT for very precise measurements. All WindMates meet NIST calibration standards and wind speed accuracy tested better than +/- 3%. 2-Year Warranty.

Common Features:

- Current, maximum wind speed
- Average wind speed over 5,10,13 seconds
- Choose any measurement unit
- Reads in tenths
- Replaceable 400-hr Lithium battery
- Easy to read LCD
- Threaded for tripod mounting
- Unique pocket-knife design to protect unit when not in use
- Comes with adjustable lanyard
- 2 year warranty

Specifications:

Accuracy: Wind +/- 3% when aligned with winds axis
Range: Wind .8-89 MPH
Response Times: Current & maximum wind 1-sec
Optional Units: Knots, MPH, KPH, Ft/Min, M/Sec, Beaufort
Power: CR2032 Lithium battery (included)
Measures: 5.5 x 1.75 x .75 (closed)
Weighs: 3.4 oz

WM-100 WindMate

Includes a wind vane to ensure accurate measurements on the winds axis. Unlike other wind meters, the jackknife case allows more precise wind speed readings because the users hand is distant from the wind impeller, which then measures undisturbed air flow.

SPT WM-100

WM-200 WindMate

All of the WM-100 features above plus:

- Windmeter with wind vane
- Fluxgate compass for digital wind direction
- Reads when held vertically
- Wind direction in degrees & compass points
- Calculates cross wind, head/tail wind
- Use as a bearing compass
- Temp & wind chill
- Backlight

SPT WM-200

WM-350 WindMate

All of the WM-200 features above plus:

Includes the Accuweather.com patented Comfort Index, which is the effect of temp, wind speed, relative humidity & sun intensity on the human body and is superior to Heat Index.

- Swiss humidity sensor, lifetime calibrated
- Temp/windchill/relative humidity/ wet bulb/dew point/Delta T

SPT WM-350

Davis Wireless Vantage Vue Weather Station

Accurate, reliable weather monitoring in a self-contained, easy-to-install system. Sleek but tough - your outdoor sensor suite sets up in minutes and starts sending data wirelessly to your console. You'll see current weather conditions, including indoor and outdoor temperature and humidity, barometric pressure, wind speed and direction, dew point and rainfall. You'll also get weather forecast icons, moon phase, sunrise/sunset times, graphing of weather trends, alarms and more. Vantage Vue also boasts the innovative Weather Centre button that displays additional data on weather variables for today and over the last 25 days.

DIN 6250

Davis Weather Wizard III

Features include: inside and outside temperature, wind direction, wind speed, and wind chill. Highs and lows are maintained for most functions, and may be quickly viewed along with the time and date they occurred. Programmable alarms alert you to changes in weather conditions. Information may be displayed in U.S. or metric units of measure. Wind speed may be displayed in either miles per hour, kilometres per hour, knots, or meters per second. A reversible mounting base allows you to place the Weather Wizard III on a desk, table or shelf, or to mount it on a wall. The auto-scan routine reviews all weather conditions, or you may enter your own scan selections. The Weather Wizard III comes complete with anemometer with 40 feet of cable, external temperature sensor with 25 feet of cable, junction box with 8 feet of cable, AC-power adapter, mounting hardware, and detailed instruction book.

DIN 7425

Davis Wind Wizard

- Corrosion resistant construction
- Dial reads in: MPH (0-60), Meters/ Sec., and Beaufort
- Sapphire jewel bearing
- Folding handle
- Carry bag included

DIN 281

► *Also See: Wind Instruments pg 167, 168, & 171*

Davis Newport Tell-Tales

This wind direction indicator is a practical sailing aid that attaches to stays without tools. 360° free swing that will not foul. Sold in pairs with extra tails.

DIN 221	1/8"
DIN 222	3/16"
DIN 223	1/4"

Davis Air-Flow Tels

Lightweight, rips top nylon. Easy-to-read Tels attach to sails with waterproof adhesive discs. Indicate maximum performance trim on sails. Each kit includes 14 Tels and full instructions on where to apply and how to read them.

DIN 950

Davis Windex 10 Wind Vane

Offers exceptional performance with the sapphire jewel suspension bearing, large fin-low inertia vane, and easy-to-read, fully adjustable tacking tab system. Reflector tape on the vane and tacking tabs make it easy to see day and night. Wind tunnel tested to wind speeds of 80 knots! Includes glass reinforced polycarbonate J-Base for side, top or front of mast mounting on most dinghies, smaller boats and sport boats. Stands just 9.25” (23.5 cm) tall, 10” (25 cm) vane and weighs 1.2 ounces (31 g).

DIN 3120

Spare Parts:

DIN 3101	10" Replacement vane
DIN R3102	Reference tab for 3120

Davis Windex 15 Wind Vane

Offers exceptional performance with the sapphire jewel suspension bearing, large fin-low inertia vane, and easy-to-read, fully adjustable tacking tab system. A perfect choice for all cruising and racing boats 15 feet (4.6 meters) and bigger. Reflector tape on the vane and tacking tabs make it easy to see. Wind tunnel tested to wind speeds of 80 knots! Windex 15 has a 15” (38 cm) vane. Includes through-bolt or drill and tap mounting socket; 5/16” -18 stainless stud, washers and nut. Stands 12.75” (32 cm) tall and weighs 3.6 ounces (101 g).

DIN 3150

Spare Parts:

DIN 3151	15" Replacement vane
DIN R3150C	Reference tab only
DIN R3152	Reference tab assembly

Davis Black Max Wind Direction Indicator

Improve your sailing with this high impact plastic indicator. It comes with a stainless arm that quickly attaches to your mast or boom. Designed to withstand years of punishment. Comes with an unbreakable storage tube for dry land storage.

DIN 1295

Davis Windex AV Wind Vane

This complete kit allows you to install a Windex 15” vane to any Shakespeare, Metz or other brand whip antenna. Comes with Teflon bearing washers, adjustable stainless tacking arms and reflectors underneath the tabs and wind vane.

DIN 3160

Davis Spar-Fly Wind Vane

Combines needle bearing balance, high impact plastic and marine grade metals for unsurpassed sensitivity and durability. Bright red in colour. Comes with both a top mount fitting and quick release side mount.

DIN 1310	Complete
DIN 1311	Spare vane

Davis Windex Offset Masthead Mount

An extension base that mounts any Windex indicator away from hardware at the masthead or for better visibility from the deck. Boom provides 12" of extension and comes with all the hardware necessary for top or side mounting. All parts are aluminum or stainless steel.

DIN 1705

Davis Windex Light

A unique, non-dazzling lighting system that allows "reading of the wind" at night. It mounts directly onto the masthead fitting of the Windex 10 and 15. Completely waterproof with non-corroding, silver parts. 12V.

DIN 3200

Lev-O-Gage Meters

Sailing Clinometers use flex-tube design and have engraved white numerals.

LEV 7301-C	3.5", 45° Clinometer
LEV 307-M	3.5", 10° Lev-o-Gage II
LEV 303-M	6.5", 50° Senior

7301-C

307-M

303-M

Sea-Dog DC Voltmeter

- 8-16 DC voltmeter in a bakelite case
- Complete with mounting screws
- W: 2-13/16" x H: 2-3/8"
- 2-1/8" round cut-out

SED 421512-1

Sea-Dog Battery Test Switch

- Stamped anodized aluminum
- W: 3-1/4" x H: 2-1/2"

SED 422020-1

Sea-Dog Battery Monitor

This panel features an expanded scale, simplified colour band meter for accurate battery condition of two separate batteries. Operation is controlled by a 3 position rocker switch, allowing independent testing of either battery. Comes complete with instructions and basic mounting hardware. 12 volts DC.

- W: 5-1/4" x H: 3-3/4"

SED 423112

Blue Sea Systems DC Analog Ammeters

- Can be surface or flush mounted
- Simple 2-wire connection from shunt
- Meter senses and powers from shunt connection
- Packaged with shunt (except 8005 with internal shunt)
- W: 2.625" x H: 2.375"

BSS 8005 0-25 amp DC
BSS 8022 0-50 amp DC
BSS 8016 0-75 amp DC
BSS 8017 0-100 amp DC
BSS 8018 0-150 amp DC

Blue Sea Systems Analog DC Voltmeter

- Displays to .2 volt
- Draws only 1 milliamperes
- Accurate to 3% of scale range
- W: 2.625" x H: 2.375"

BSS 8003 8-16 Volts DC
BSS 8240 18-32 Volts DC

Blue Sea Systems AC Voltmeter

- 150 Volt dial marked in 5^0 increments
- Simple 2-wire connection
- W: 2.625" x H: 2.375"

BSS 9353 AC voltmeter

Blue Sea Systems AC Ammeter

- 50 Amp dial marked in 2 amp increments
- Meter senses and powers from coil slipped over wire to be measured
- Includes current transformer
- Simple 2-wire connection
- W: 2.625" x H: 2.375"

BSS 9630 Analog ammeter, 50A

Blue Sea Systems 3-Bank Voltage Monitor

- Standard 8-16 voltmeter
- 3.75 "H x 5.25" W panel
- Rotary switch to switch between 3 different battery banks

BSS 8015

Blue Sea Systems 3-Bank Digital DC Voltmeter

- Reads from 7-60 VDC
- Large easy to read red LED display w/ dimmer
- Meter senses and powers from same location
- Draws as little as 13 milliamperes
- Simple 3-wire installation
- Dimensions: 3.75" H x 5.25" W

BSS 8051 7-60 volt DC voltmeter

Blue Sea Systems Meter Mounting Panels

Slate grey aluminum panels for mounting all analog or digital meters. Exact colour and size match to Blue Sea electrical panels.

BSS 8013 Single 3-3/4"H x 5-1/4"W
BSS 8014 Double 7-1/4" H x 5-1/4"W

Blue Sea Systems Digital Meters

New Spin-On Mounting System
- Surface mounts in a standard 2” (52 mm) round hole
- Panel mounts in any full size Blue Sea Systems’ electrical panel meter cut-out

All digital series meters share the following features:
- 3 display brightness levels + off (sleep mode)
- Splash proof front
- Display character size: 9/16”
- Power consumption min. 0.60 Watt
- Power consumption max. 1.00 Watt
- W: 2.625" x H: 2.431"

DC Digital Voltmeter

- Displays voltage from 7 to 60 volts
- 3 Display brightness levels & off
- Splash-proof front

BSS 8235 DC digital voltmeter

DC Digital Ammeter

- Displays amperage from -500 to +500 amps
- Standard meter operates in negative side of circuit only
- Input voltage 7-60VDC
- Includes 500 amp shunt

BSS 8236 DC digital ammeter

DC Digital Multimeter With Alarm

- Displays amperage from -500 to +500 amps
- Displays voltage from 7 to 60 volts in 0.01 volt increments
- User defined high and low voltage, audio and visual alarms
- Standard meter operates in negative side of circuit only
- Includes 500 amp shunt

BSS 8248 DC digital muti-meter

DC Digital Voltmeter With Alarm

- Displays voltage from 7 to 60 volts
- User defined high and low voltage audio and visual alarms
- Input voltage 7-60VDC

BSS 8251 DC digital voltmeter

AC Digital Voltmeter

- Displays voltage from 80 to 249 volts
- Input voltage range 80 to 249 VAC*

BSS 8237 AC digital voltmeter

Blue Sea Systems Digital Meters

AC Digital Ammeter

- Displays amps from 0 to 150 amps
- Includes current transformer
- Input voltage range 80 to 249 VAC*

BSS 8238 AC digital ammeter

AC Digital Frequency

Displays frequency from 40 to 90 Hz

BSS 8239 AC digital frequency

AC Digital Multimeter With Alarm

- Displays amperage from 0 to 150 amps
- Displays voltage from 80 to 249 volts
- Displays power from 0-35 kilowatts
- Displays frequency from 40 to 90 hertz
- User defined high amperage audio and visual alarm
- Includes current transformer

BSS 8247 AC digital multi-meter

Newmar Digital Monitors

These digital instruments provide comprehensive monitoring of voltage, current, power consumed, power available, AC frequency, abnormal system conditions, and more. LCD displays are easily read in bright sunlight and feature five level adjustable red back-lighting for conservation of night vision. The meter/touch-pad and surrounding 2-1/2" bezel are fully waterproof and the ABS housing is UV stabilized.

AC Energy Monitor

- For 115/230 volt systems
- Reads: 90-300 VAC (True RMS), 0-150 amps, frequency from 40-70 Hz and power from 0-45 kW
- Alarm circuits for high/low voltage and high/low frequency
- Can be programmed to provide automatic generator shutdown in the event that voltage or frequency exceed predetermined range
- Current and voltage transformers are included
- 12/24V source required to power meter

NEW ACE

DC Energy Monitor

- Displays volts, amps, energy used and remaining for 12/24V systems up to 500 amps and up to 3,000 amp-hour capacity
- Monitor voltage on up to three separate banks
- House bank may be programmed for the following functions:
  1. Monitor charge/discharge amperage
  2. Total energy monitor can be set for amp-hours or percent-of-charge
  3. High/low voltage alarm, plus alarm set-point for low amp-hours remaining
- 500 amp shunt included
- NMEA 0183 compatible output for data logging

NEW DCE

DC Voltmeter

- For three battery banks, 12 and/or 24 volt systems
- Reads to the nearest 1/10 volt
- Programmable high/low voltage alarm circuit for each bank
- NMEA 0183 compatible for PC interface

NEW DCV

Newmar Single Panel

Single Universal Panel; accommodates one 2 1/2" analog meter or one Digital Instrument in front-mount configuration; can be oriented for either horizontal or vertical mounting.

- 3-3/4" x 5-1/4"

NEW MPB-SU

BEP DC Digital Monitor

Digital monitors are designed for easy installation and offer full battery monitoring in one gauge. Units can be fitted to a surface with minimum protrusion or recessed into a panel.

- Voltage monitoring for 3 battery banks with custom selectable legends. Eg. Start batt, house batt, radio batt.
- Charge and discharge amps (house bank only)
- Amp hours remaining (house bank only)
- Hi-low voltage alarms on 3 battery banks
- Low amp hour alarm
- Operating voltage 10-35vdc
- Software includes peukerts exponent
- Meter supplied with 450A-50mv shunt
- Suitable for monitoring amp hours on battery banks with a capacity between 100 & 3000 amp hours.

BEP 600-DCM	Monitor
BEP 600-DCM-5M	Cable kit, 16.5'

Blue Sea Systems Shunt Shifter

- Shunt Adapter for DC digital ammeter positive side shunt applications, such as alternator measurement
- Designed for use with BSS 8255
- Advanced technology shifts the shunt's positive reference to negative as required by digital meters
- Installs directly onto shunt using existing sense screws
- Ideal for use with 12-36 volt DC systems

BSS 8242

Blue Sea Systems DC Shunts

Power all Blue Sea Systems external shunt ammeters.
W: 1.75" x L: 3.25" x H: 1.75"

BSS 8255	500 amp
BSS 9230	100 amp

Xantrex
Linklite Battery Monitor

Defining the amount of energy available in a battery is a complex task since battery age, discharge current and temperature all influence the actual battery capacity. High performance measuring circuits, along with complex software algorithms, are used to exactly determine the remaining battery capacity.

- Read your battery bank like a fuel gauge
- Provides critical information about the status of your battery bank
- Displays voltage, current, consumed amp hours and remaining battery capacity
- Secondary battery bank voltage monitoring
- Auto sensing battery voltage inputs
- Large backlit LCD Display
- Quick nut mounting construction
- Programmable alarm relay
- Shunt selection capability enables flexible system integration
- Splash proof front panel
- 500 Amp shunt included
- CE and e-mark certified

XAN 84-2030-00

Xantrex
LinkPRO Digital Battery Monitor

The LinkPRO selectively displays voltage, charge and discharge current, consumed amp hours, remaining battery capacity and the time remaining of your battery bank. Using a clear backlit LCD Display and an intuitive user interface, all parameters can be recalled with just a button press. A second battery input is also provided to monitor voltage on a second battery. It is equipped with an internal programmable alarm relay, to run a generator when needed or to turn off devices when the battery voltage exceeds programmable boundaries.

- Provides critical information about the status of your battery bank
- Displays voltage, current, consumed amp hours and remaining battery capacity
- Secondary battery bank voltage monitoring
- Auto sensing battery voltage inputs
- Large backlit LCD Display
- Programmable alarm relay
- Shunt selection capability enables flexible system integration
- Splash proof front panel
- 500 Amp shunt included
- Displays time remaining
- Communication/expansion port
- Stores a wide range of history events in internal memory
- Battery temperature sensor input

XAN 84-2031-00

Blue Sea Systems
Vessel Systems Monitor VSM 422

- Three intuitive display modes
- Flexible case design offers three mounting options
- Fully programmable legends and adjustable alarm functions can be customized to fit every boat
- Included in retail packaging—head unit, surface mount bezel, surface mount gasket, DC Current Shunt 8255, AC Current Transformer 8256, Battery Temperature Sensor 1820, connectors, and mounting screws
- Monitors DC systems—voltage, amperage, battery state of charge - amp hours remaining, time remaining, % charge, battery temperature (alarms for all values)
- Monitors AC systems—voltage, amperage, watts, frequency (alarms for voltage, amperage, and frequency)
- Monitors tank levels—fuel, water, waste, (alarms for high level waste, low level fuel, and water)
- Monitors bilge—active, cycle count, volume, duration (alarms for cycles, volume, duration)

BSS 1800

Blue Sea Systems Ultrasonic Tank Sender

- Accurate - used with the Vessel Systems Monitor VSM 422 PN 1800 above—can be precisely calibrated for each tank
- Reliable - SSI Technologies, Inc. Fluid-Trac is non-contacting eliminating any mechanical moving parts that can wear and cause intermittent or complete signal loss
- Digital filtering - Eliminates errors due to liquids sloshing in mobile tanks

BSS 1811	Gasoline only, max tank depth 24"
BSS 1810	Diesel, water or waste, max tank depth 32"

Max Power Marine Fuel Cell

The Marine Fuel Cell can supply power for all 12 V on board equipment providing power while in an idyllic anchorage or on a long passage in total silence for the ever increasing list of 12V equipment; electronics, refrigerators, microwaves, inverters and even water makers all of which are being fitted to sailing yachts. Max Power's new Marine Fuel Cell range offers extended lifespan, reduced methanol consumption and increased user control, providing clean and virtually silent 12V DC power to constantly charge your batteries. Capable of running 24hr/day, the fuel cell continually supplies power as needed. This "constant power" approach reduces the charge/discharge cycles imposed on house batteries, thereby significantly increasing their service life. Fuel cells are ecologically friendly and with the capacity to replace fossil fuel, they are now a reality with the potential to power the next generation of yachts.

- Ah per day: 100
- Continuous output 12V: 4.2A
- Recommended for yachts: 32-40'
- Dimensions: L: 435 x W: 200 x H: 276 mm
- Weight: 7.5 kg

Fuel Cartridge:

- Capacity: 5 Litre
- Weight: 4.2 kg
- Hour/Cartridge: 82

MXP MFC110

Parts:

MXP MFCM5 Methanol cartridges 5 litre each, 2/set
MXP MFCMO* Medium process

*Request item

Professional Mariner Bat Savr & Bat Savr M

Designed for charging up to 25 amp hours per day as well as long term battery storage. Plugs into a standard 120 VAC outlet and connects to your battery with alligator clips. LED light signifies proper operation and does not drain battery if AC is off. Cannot over charge.

- Fully automatic
- Does not drain battery if A.C. is off
- Reverse polarity protected
- Precise voltage regulation
- Current limiting
- Over temp. protection

PRO 10115 6' D.C. output wires with alligator clips.
PRO 10116 Wall or bulkhead mount, AC cord, and 5 foot D.C. output wires.

Guest Portable Battery Chargers

Automatic 3-stage portable charger designed for fast, full charging and maintenance. Completely sealed unit is waterproof, corrosion proof and shock proof. Built in electronic overload & thermal protection, LED indicators, reverse polarity protection and carrying handle. Comes pre-wired with a 6' AC cord and a 4' DC output wire with alligator clips.

GUE 2612A 10 amp portable charger
GUE 2606A 6 amp portable charger

Xantrex TrueCharge 2 Battery Chargers

NEW

Easy-to-read display can be augmented with an optional remote panel.

- Microprocessor-controlled, multistage charging algorithms
- Settings for two and three-stage charging
- Settings for flooded, gel, AGM or lead-calcium batteries
- Temperature-compensated charging (with optional sensor)
- Power factor corrected for efficient charging
- Battery-equalization feature
- Ability to charge dead batteries
- Reverse battery polarity protection
- Over and under-temperature protection
- DC over-voltage protection
- Battery overcharging protection
- Ignition protection
- 3 DC outputs

Part #	Output	Dimensions	Weight
XAN 804-1220	20A-12V	H: 2.8" x W: 6.7" x L: 9.8"	4.8lbs
XAN 804-1240	40A-12V	H: 2.8" x W: 6.7" x L: 9.8"	4.8lbs
XAN 804-1260	60A-12V	H: 3.5" x W: 6.7" x L: 13.4"	9.9lbs

Accessories:

XAN 808-0232-01 Battery temperature sensor
XAN 808-8040-00 Remote Panel

Xantrex TrueCharge 2 Remote Panel

NEW

Unit reads like a fuel gauge and displays critical information on charging of battery banks.

- Gives the user flexibility to set maximum charger output current
- Allows the charger to be powered on or placed into standby while AC power is connected
- Programs the charger for battery type and temperature
- Displays faults and warnings, basic battery level and settings
- Displays the current status of each battery or each battery bank
- Simple push buttons to change charger settings
- FCC Class B compliant
- 7.6 m (25') 6-conductor crossed telephone cable
- 4-9/16" x 11/16" x 3-9/16"

XAN 808-8040-00

Guest Charge Pro Series Chargers

- Ignition, reverse polarity & short circuit protected
- Maintenance mode protects batteries during storage
- Fully potted to waterproof electronics
- Vibration and shock protected
- Self-protecting under extreme ambient conditions
- For flooded, gel and AGM batteries
- 2 - year limited warranty

3-Stage Charging: ..... Bulk Stage
Absorption Stage
Float Maintenance Stage

	Part #	Total Amps	Outputs	Amps per Out	Battery Systems	AC	DC	Dimensions
Single Battery	GUE 2608A	6	1	6	12V	6' cord w/ connect charge plug	4' with ring terminals	3.5" x 6.4" x 2.25"
Dual Battery	GUE 2610A	10	2	5/5	12V	Studs	Studs	5.5" x 7.75" x 2.42"
	GUE 2611A	10	2	5/5	12V+12V or 24V	6' cord w/ connect charge plug	4' with ring terminals	5.5" x 7.75" x 2.42"
	GUE 2620A	20	2	10/10	12V+12V or 24V	6' cord w/ connect charge plug	6' with ring terminals	7.0" x 9.6" x 2.63"
Triple Battery	GUE 2623A	25	3	10/5/10	12V+12V+12V or 24V+12V	6' cord w/ connect charge plug	6' with ring terminals	7.0" x 13.0" x 2.6"

Guest Charge Pro PLUS Series Chargers

The Charge Pro PLUS system combines a Guest charger with an alternator power module (VSR) to continuously charge the trolling motor or house battery while the engine is running. This system allows energy which is normally wasted on a fully charged cranking (or starting) battery bank to be re-directed to the trolling motor or house battery bank ensuring that all batteries are fully charged.

Part #	Total Amps	Outputs	Amps per Out	Battery Systems	AC	DC	Weight	Dimensions
GUE 36082-12	8	2	4	12V	6' cord w/ connect charge plug	Studs	6 lbs	6.3" x 6.8" x 3"
GUE 36202-12	20	2	10/10	12V	6' cord w/ connect charge plug	Studs	9.5 lbs	8.0" x 8.9" x 3"

Magnum MC MagnaCharger

This battery charger is compatible with power from the world over, is easy to install, and simple to setup. Connections to the charger are clearly marked and easy to make because of the large wiring compartments. Large DC terminals make accommodating the right size cable possible. Low loss isolation makes charging the batteries more efficient. Built for mobile applications and compliant to UL1236 including the marine supplement and CSA 107.2 safety standards.

- Charger efficiency: >85%
- Five stage charging: Bulk, Absorption, Float, Full Charge, and Equalize Battery
- Automatic temperature compensation
- Internal cooling: Passive
- Over temperature protected
- DC over load protected: current limited
- Conformal coating on PCB's, anodized aluminum heatsink and stainless steel fasteners
- Warranty 2 years

Part #	Output VDC	Outputs	L x W x H	Weight lbs
MAG MC 20	20	3	14.8” x 6.5” x 4”	7
MAG MC 40	40	3	14.8” x 6.5” x 4”	8

Professional Mariner ProTech i-Series Auto Battery Chargers

- Fully automatic multi-stage charging: 4 complete stages, for fast charge times, conditioning, maintenance of each battery & dockside power supply mode
- Active battery balance control (BBC): actively monitors the condition of each battery or bank while charging, to ensure no battery is overcharged.
- User programmable battery type selector: for use with lead acid, AGM and gel batteries
- User programmable conditioning mode: 1 to 4 hours
- Fully automatic wide range global AC input: select 95VAC - 250VAC 50/60Hz
- Built in safety: ignition protection, over temperature, over voltage and reverse polarity protection

Part #	Volts	Amps	Banks	Size L x W x H	Weight
PRO 63310	12	10	2	10.5" x 6.375" x 2.875"	4 lbs
PRO 63315	12	15	3	10.5" x 6.375" x 2.875"	4 lbs
PRO 63320	12	20	3	10.5" x 6.375" x 2.875"	4 lbs
PRO 63325	12	25	3	10.5" x 6.375" x 2.875"	4 lbs
PRO 63331	12	30	3	15.5" x 6.375" x 2.875"	6.5 lbs
PRO 63341	12	40	3	15.5" x 6.375" x 2.875"	6.5 lbs
PRO 63420	24	20	3	15.5" x 6.375" x 2.875"	6.5 lbs

Professional Mariner ProNautic Series Auto Battery Chargers

- Intelligent C3 software controlled multi stage charging: optimal fast charge, conditioning, maintenance & dockside power supply mode
- Active battery balance control (BBC): C3 software actively monitors the condition of each battery or bank while charging, to ensure no battery is ever overcharged
- Intelligent self calculating absorption-conditioning mode: Automatically programs charge/conditioning time based on discharge state of batteries, resulting in a 100% charge while desulfating batteries and extending battery life
- Automatic 10 day re-condition mode: added conditioning to maximize battery life
- Fully automatic wide range global AC input: 95VAC to 250VAC 50/60hz
- True temperature compensation with remote probe
- Interactive remote port for optional helm control & display
- User programmable charge profiles for up to 7 battery types
- Built in safety: ignition protection, over temperature, over voltage and polarity protection
- 17" x 8.25" x 3.75"

Part #	Volts	Amps	Banks	Weight
PRO 63725	24	25	3	11 lbs

Professional Mariner ProSport Series Battery Chargers

- Distributed-on-demand technology: automatically charge and maintain engine crank battery (s) while sensing and distributing 100% of the available charging amps to trolling motor or house bank battery (s).
- Automatic multi-stage charging: fully charge and extend the life of your batteries
- Automatically charges and conditions your batteries with a built-in safe maintenance mode
- Digital battery type selector: user selectable performance charge profiles for: flooded (lead-acid)/STD AGM, GEL & high performance (hp) AGM
- LED status centre provides at-a-glance status of: AC power, charge mode, battery type, and ready/maintenance mode.
- Extruded aluminum housing
- Dynamic thermal output control: controls charging amps while maintaining the recommended charger temperature.
- 100% Waterproof and shockproof, dual inline DC safety fuses for trolling motor accessory battery banks, dynamic thermal output control, over voltage, overload, over temperature, reverse polarity, and ignition protection.
- Pre-wired (5') for easy installation

Part #	Volts	Amps	Banks	L x W x H	Weight
PRO 42006	12	6	1	5.75" x 7.25" x 2.5"	6 lbs
PRO 42008	12/24	8	2	7" x 7.25" x 2.5"	8 lbs
PRO 42012	12/24	12	2	8.5" x 7.25" x 2.5"	9 lbs
PRO 42021	12/24/36	20	3	10.75" x 7.25" x 2.5"	11 lbs

Mastervolt ChargeMasters

- High Frequency Switch Mode Technology = compact, lightweight and extremely efficient
- Universal input (90-135, 180-265VAC, 50/60Hz)
- Power Factor Corrected meeting CE certification - >0.98
- 3-stage+ battery charging of up to 3 battery banks
- For use with lead acid, gel or AGM batteries
- Includes auxiliary power supply to provide DC voltage even if batteries are not connected
- Ability to charge a “dead battery”
- High quality output power to keep the batteries healthy, even with low-quality input power
- No reduction of charging power if input power is low
- Meets FCC Class B, over-temperature, ignition protected, meets UL, ABYC and CE requirements, meets IP23
- Charging capabilities optimized even in high ambient operating temperatures
- Memory function prevents overcharging with peaks in the power supply
- Includes CANbus port for easy connection to Mastervolt’s MasterBus CANbus network
- 2 year warranty
- Includes battery temperature sensor
- Remote panel available, see MasterView Easy, MSV 77-01-0305 (pg 227)

Mass Chargers	Total Charge Current	Output Voltage	Battery Capacity	Dimensions H x W x D (mm)	Weight kgs
MSV 44-01-0500	50A @ 14.4V	12V	100-500 Ah	301 x 210 x 131	4
MSV 44-01-0700	70A @ 14.4V	12V	140-700 Ah	360 x 277 x 150	6.7
MSV 44-01-1000	100A @ 14.4V	12V	200-1000 Ah	360 x 277 x 150	6.7
MSV 44-02-0400*	40A @ 28.8V	24V	80-400 Ah	360 x 277 x 150	6.7
MSV 44-02-0600	60A @ 28.8V	24V	120-600 Ah	360 x 277 x 150	6.7
MSV 44-02-0800	80A @ 28.8V	24V	160-800 Ah	430 x 277 x 150	8.8
MSV 44-02-1000*	100A @ 28.8V	24V	200-1000 Ah	430 x 277 x 150	8.8

*Request Item

The ChargeMaster fully automatic battery chargers are designed for medium and large sized recreational and semi-professional systems. The ChargeMaster can charge batteries everywhere in the world with the auto ranging input voltage.

Mastervolt PowerCharger

- 12V, 20 amp and 40 amp units
- Universal input (90-265VAC, 50/60Hz) , one charger for domestic and international applications
- Fully automatic multi-stage battery charging of up to 3 battery banks
- Settings for lead acid, gel, AGM, flooded or spiral batteries
- Built in memory prevents over-charging
- Auxiliary power supply supplies a constant DC voltage even if the batteries are not connected
- Ability to charge a “dead battery”
- Compatible with low-quality power sources, will not decrease charging power
- Safety Features: Over temp, shutdown, ignition protected, overload protection, surge and short circuit protection
- Meets UL, ABYC and CE requirements
- Does not include CANbus capabilities; please use the ChargeMaster battery charger series for these applications
- 2 year warranty

Power Chargers	Total Charge Current	Output Voltage	Battery Capacity	Dimensions H x W x D	Weight lbs
MSV 44-21-0200	20A @ 14.4V	12V	40-200 Ah	8.3" x 5.1" x 2.4"	2.5
MSV 44-21-0400	4A @ 14.4V	12V	70-350 Ah	11.5" x 8.3" x 5.2"	8.8

Newmar Battery Chargers

Phase Three “Smart” battery charging technology interacts with batteries to put them through the optimum three stage charge process which provides for fastest recovery and ideal conditioning, maximizing battery performance and extending battery life. All models are housed in a stainless steel case and the internal circuitry is polyurethane coated for maximum corrosion resistance.

- “Smart” circuitry provides three stage charging - bulk, absorption, float
- Gel-cell/flooded lead-acid/AGM battery type switch selects charge/float voltages
- Charger status displayed with LED and/or audible indicators
- Multiple isolated output banks; ammeter indicates total output current
- Optional sensor adjusts output voltage based on battery temperature (except PT-7)
- Current limiting-prevents damage from overloading
- Use as a power supply; can power loads without a battery in line
- Full two year parts and labour warranty

Ref	Height x Width x Depth (mm)
A-1	10.5”(26.7) x 5.0”(12.7) x 2.8”(7.1)
A-2	12.5”(31.8) x 7.7”(19.6) x 4.3”(10.9)
A-3	14.1”(39.4) x 9.5”(24.1) x 4.0”(12.7)
A-4	15.5”(39.4 x 9.7”(24.6) x 5.0”(12.7)
A-5	16.7”(42.4) x 9.8”(24.9) x 6.7”(17.0)
A-6	19.5”(49.5) x 12.2”(40.0) x 8.2”(20.8)

Part #	Volts	Input VAC	Input Amps @115V	Max. Output Amps @115V	Output Banks	Battery Capacity (amp hours)	Case Size	Weight lbs
NEW PT-7	12	88-132 or 76-264	2	7	2	14-70	A-1	3.2
NEW PT-14	12	85-264	2.8	14	3	28-140	A-2	8
NEW PT-24-20W	24	85-135 / 150-270	8.5	20	3	40-200	A-3	12
NEW PT-25 W	12	90-132 / 80-254	6.5	25	3	50-250	A-2	8.2
NEW PT-40	12	85-132 / 70-270	8.5	40	3	80-400	A-3	12
NEW PT-80	12	90-264	12	80	3	160-800	A-5	15.2
NEW PT-24-8	24	85-364	2.8	8	3	16-80	A-2	8
NEW PT-24-13	24	90-132 / 180-264	6.5	13	3	26-130	A-2	8.2
NEW PT-24-45U	24	90-264	12	45	3	90-450	A-5	12.2
NEW PT-24-95W	24	207-253	N/A	N/A	3	180-950	A-6	34

Newmar Temperature Sensor

- 5 mV per cell per °C. Sensor supplied with 25' cable and plug-in connector.

NEW TCS-12/24-25' Sensor

Newmar Remote Indicator Panel

LED’s indicate charger output stage. Button allows manual re-initialization of three stage charge cycle. Supplied with 25' cable and plug-in connector. (Not for all models)

NEW RP 3" H x 4.75" W

Mastervolt Mass Sine Wave Inverters

- Utilizes High Frequency Switch Mode Technology Small, lightweight and amazingly quiet
- True sine wave – clean output power for sensitive devices such as electronics
- High surge power output when starting
- Compatible with any electrical system, easily incorporated into existing electrical systems
- AC power always available even without shore power or generator power
- Energy-efficient circuit
- All loads’ power factors are allowed
- Electronic components are perfectly shielded
- Easy installation, operation and clear signaling
- Broad Range – 800W to 15kVA, 120VAC/60Hz, 230VAC/50Hz
- Optional on/off LED panel (see below) for control and remote operation

Part #	Battery	Low Battery Switch OFF/ON	High Battery Switch OFF/ON	Max. Peak Load	Input Current	Weight	H x W x D
MSV 02-50-12000	12V	10V / 11V	15V / 14.5V	4000 VA	200A	20 lbs	16.6" x 12.5" x 5.9"
MSV 02-50-22500	24V	19V / 22V	33V / 31V	5000 VA	120A		

Mastervolt Remote Panels

Model C4-RI, has an inverter on/off switch, an ‘on’ indicator and a 'fault’ indicator. Possible faults include battery voltage too low, overload, or a short circuit in the AC circuitry.

MSV 07-04-04110

Smart choice for power™

xantrex™

POWER SOLUTIONS FOR ALL MARINE APPLICATIONS

FREEDOM SW Sine Wave Inverter/Chargers

- Premium performance & hard-to-match pricing in one package
- Power factor corrected, multi-stage charging uses less AC input power than traditional chargers
- High surge capability for demanding electrical applications
- Available in two 12 V models: Entry level 2000 watt and Feature rich 3000 watt

TRUECHARGE™2 Battery Chargers

- Powerful, high efficiency charger in an ultra-compact footprint
- Worldwide input voltage range: 90Vac - 240 Vac nominal
- Power factor corrected charging effectively uses incoming AC shorepower minimizing current draw
- Wide operating temperature range
- Available in three 12 V models: 20, 40 and 60 amps

PROwatt™SW Sine Wave Inverters

- Cost effective line of inverters provides an affordable alternative to modified sine wave products
- Conformal coated circuit boards for all climate conditions
- Built-in USB port to charge handheld electronic devices
- Available in three 12 V models: 600, 1000 and 2000 watt models

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www.xantrex.com

Xantrex XS400 Sine Wave Inverter

400 watts of sine wave AC power for your electronics. Its clean utility-grade output will not produce noise and distortion on TV's, VCR's, DVD's and stereos. With a surge rating of 800 watts, it can power complete entertainment systems including two 27” televisions. Includes a built-in transfer switch that automatically transfers between inverter power and incoming AC power.

- DSP control technology starts complex loads with ease
- Dual AC outlets and hard wire AC connections
- CSA/NTRL certified to UL458 and CSA 107.1
- Remote panel
- Battery over-voltage and under-voltage protection
- Over temperature shutdown
- Automatic overload, short circuit and ground fault protection (GFCI)
- Dimensions: 3.3" x 7.4" x 13.5"
- Weight: 10 lbs
- One year warranty

XAN 806-0400 With remote panel

Xantrax Prowatt Sine Wave Inverters

True sine wave output with high surge capability, the PROwatt SW Series provides the necessary current to startup demanding electrical loads. In addition to dual GFCI AC receptacles, the PROwatt SW Series includes a USB connection for providing power to most USB chargeable devices. Provide power for all types of electrical loads including, variable speed power tools, advanced electrical appliances and microwaves.

- Built-in digital display for DC volts and output power
- Heavy duty terminals for battery connection
- Available ON/OFF remote switch (with ignition lockout)
- Low voltage shutdown (10.5 Vdc)
- Low voltage alarm (11.0 Vdc)
- Over voltage protection (15.5 Vdc)
- Over load shutdown
- Over temperature shutdown
- GFCI protection
- Two year warranty

XAN 806-1206 600 watt
XAN 806-1210 1000 watt
XAN 806-1220 2000 watt

Accessories:
XAN 808-9001 Remote

Xantrex Prosine 1000/1800 Series Inverters

Offering true sine wave output, the Prosine 1000 and 1800 stand-alone inverters are ideally suited for electrical systems that already have a multi-stage battery charger. Their 120-volt, 60 Hz AC power output is capable of handling both heavy duty and smaller, multiple AC loads.

- True sine wave AC output (crystal controlled)
- Removable LCD display can be mounted remotely
- DC terminals offer 180-degree connections for installation in tight places
- Powersave mode draws only 1.5 watts under no load
- Over temperature shutdown and automatic overload protection
- Over voltage and under voltage protection
- Short circuit and AC back-feed protection
- Weight: 14.5 lbs
- Dimensions: H 4.5" x W 11" x D 15.4"
- Two year warranty

XAN 806-1000 1000 Watt, 12V
XAN 806-1800 1800 Watt, 12V
XAN 806-1802 1800 Watt, 12V, AC hard wire terminal strip for permanent installation into an electrical system with 15 A transfer switch

Accessories:

XAN 808-1800 Interface panel
Replaces the LCD Panel in the inverter so that it may be moved remotely in a location of your choice. Features include: LED indicator for status monitoring, ON/Bypass switch, internal filter for reduced interference and comes with 30' of telephone cable.

Xantrex Pro Series Inverters

These modified sine wave inverters feature a detachable, digital remote control (using standard telephone wire & jacks) to display precise inverter, AC source and battery status information from one convenient location. A built in transfer switch automatically detects when generator or shore power status changes to ensure power is always available.

- Can be mounted either horizontally or vertically
- Conformal coated boards
- 1000/1800W inverter easily powers TVs, small appliances, and other electronics
- Built-in 15A circuit breaker on AC pass-through
- Conformal coated electronics provide moisture resistance
- Hard-wired using a terminal strip or by connecting AC through a GFCI receptacle (included)
- Battery over-voltage and under-voltage protection
- Over temperature shutdown
- Automatic overload, short-circuit and ground fault protection
- Meets FCC Class B regulations
- UL 458 certified

Part #	Surge Rating	Output	Weight	H x W x D
XAN 806-1010	2000W	8.3A	7.5 lbs	4" x 8.3" x 13"
XAN 806-1810	3600W	15A	9.5 lbs	4" x 8.3" x 15.5"

MAGNUM ENERGY

There is a Magnum Inverter/Charger to meet your needs

ME Series Inverter/Charger

Works with: **Marine & RV Systems**

Models: **ME-2012, ME-2512, ME-3112**

MM Series Inverter/Charger

Works with: **Marine & RV Systems**

Models: **MM-1212**

MMS Series Inverter/Charger

Works with: **Marine & RV Systems**

Models: **MMS-1012**

MS Series Inverter/Charger

Works with: **Marine, RV Systems & Renewable Energy (Off-grid and back-up)**

Models: **MS-2000, MS-2012, MS-2012-20B, MS-2812, MS-4024**

Available Accessories:

Automatic Generator Start Module (AGS), Battery Monitor Kit, Fuse Blocks, LCD Remote Displays, Smart Battery Combiner (ME-SBC)

ME-SBC

Remote

AGS

Battery Monitor Kit

Call and ask for our full catalog for complete product information.

Phone:
425-353-8833

Web:
www.magnumenergy.com

Magnum MM & MMS Series Inverter/Chargers

MM & MMS inverters provide a cost effective solution for those with smaller power needs in mobile applications. Versatile, easy-to-use, and lightweight, the MM & MMS series provides a reliable base for your energy system. Units use a PFC (Power Factor Corrected) charger, which is 85% efficient and the same charger topology used in all Magnum models. ETL listed to the stringent requirements of UL/cUL 458, CSA C22.2 #107.1-01 and meets the KKK-A-822E standard. AC power to continue to pass-thru to power loads even if the inverter is off.

- Dead battery charging allows charging of batteries that are extremely low
- Automatic, 4-stage battery charger with power factor correction
- Inverter/charger has a 12 amp AC transfer relay
- The AC input and output are provided with pigtail wires to allow hard wiring to a main AC distribution panel or inverter sub-panel
- Neutral-to-ground switching
- Includes 15' battery temperature sensor
- Dimensions L: 16.6" x W: 8.4" x H: 4.7"
- Weight 20 lb
- Two year warranty

MM Modified Sine Wave

Inverter

- Input battery voltage: 9-15.5 VDC
- Rated input battery current 125 ADC

Charger

- Continuous output at 25° C 70 ADC

Part #	Chargrer Output	Inverter Output
MAG MM1212	70 amp	1200W-12V

MMS Pure Sine Wave

Inverter

- Input battery voltage: 9-17 VDC
- Rated input battery current 102 ADC

Charger

- Continuous output at 25° C 50 ADC

Part #	Chargrer Output	Inverter Output
MAG MMS 1012	50 amp	1000W-12V

Magnum ME & MS Series Inverter/Chargers

ME Series Modified Sine Wave

The power corrected charger efficiently charges your batteries even at low AC voltage, while the modified sine wave inverter keeps the cost down. Additionally, the battery temperature sensor works with the charger for optimum battery charging.

- ETL Listed to the requirements of UL/cUL 458
- Designed with Flash programming for memory upgrades
- Mount on a shelf, bulkhead, or even upside down
- Aluminum base and cover
- Multiple ports, including an RS485 communication port for network expansion, and a remote port
- Comes with an on/off inverter-mounted switch with an easy-to-read LED indicator
- Expanded transfer relay: 50 amp transfer service
- Extra large AC access cover with terminal screw block and 360° DC connection terminals with covers
- All boards can be replaced in the field
- Five stage charging including bulk, absorb, float, equalize, and battery saver
- 13.75" H x 12.65" W x 8" D
- Three year warranty

Part #	Charger Output	Inverter Output	Weight
MAG ME-2012	100 amp	2000W-12V	38 lbs
MAG ME-2512	120 amp	2500W-12V	45 lbs
MAG ME-3112	160 amp	3100W-12V	48 lbs

MS Series Pure Sine Wave

All of the same features as the ME series above but with a Pure Sine Wave Inverter. Power your T.V.s, stereos, plasma screens, and other sensitive electronics without worry. The pure sine wave inverter and power factor corrected charger provide clean, reliable inverter power with low total harmonic distortion (THD) of less than 5%.

Part #	Charger Output	Inverter Output	Weight
MAG MS-2012	100 amp	2000W-12V	43 lbs
MAG MS-2812	125 amp	2800W-12V	53 lbs
MAG MS-4024	105 amp	4000W-24V	58 lbs

Magnum MS-AE Series Pure Sine Wave Inverter/Chargers

The MS-AE Series Inverter/Charger from Magnum Energy is a pure sinewave inverter designed specifically for the most demanding renewable energy applications. The unique design of the MS-AE Series can provide 120 and 240 volts AC output in one unit, eliminating the need to stack two units together to get 240 volts. ETL listed to the stringent requirements of UL 1741 and CSA C22.2 No. 107.1-01 for renewable energy installations.
3 year warranty

- Two legs at 30A per leg transfer service
- Comes with an on/off inverter mounted switch with an easy-to read LED indicator
- 13.75" H x 12.65" W x 8" D
- Weight: 54.5 lbs

Part #	Charger Output	Inverter Output
MAG MS 4448AE	105 amp	4000W-12V
MAG MS 4024AE	60 amp	4400W-24V

Magnum Remote Control

Simple to use, yet allows full set-up features of the ME, MM, MS and RD Series inverters. The ME-RC also has the option of controlling the ME-AGS Automatic Gen Start using a network connection to the inverter.

- Non-volatile memory saves your settings even if the power is disconnected
- The large LCD screen and at-a-glance LEDs display the inverter/charger status
- Soft keys give access to menus and a rotary encoder knob quickly scrolls through menus and selects settings
- Multiple functions in one place, including: inverter on/off, charger on/off, shore power breaker settings, AGS control, meter button, setup, and technical menus

MAG ME-RC-50 Panel w/ 50' cable

Magnum Battery Monitor

A fuel gauge for your batteries. It gives you a percentage of charge of your battery bank. The monitor reports percent of charge, real time amps, amp hours, minimum and maximum DC volts. The kit includes a Battery Monitor, cables, and a 500 amp shunt.

MAG ME BMK Kit

Magnum Battery Teperature Sensor

MAG ME-BTS-15 Kit

Magnum Remote Control

Optional remote control provides six LED indicators for inverter and charger status, includes a remote ON/OFF switch; comes with 25' cable. This remote is for MM Series inverters with the battery charger feature; such as the MM612AE, MM1212 or MM1212AE models.

MAG MM-RC25

Magnum ME 300F & ME 400F Fuse Kits

The Magnum Energy fuse block is designed to provide code compliant over-current protection. It uses a fast acting, current limiting class-T fuse cartridge which provides instantaneous protection in the event of a short circuit but also employs a time delay to allow momentary current surges common in inverter applications. Rugged injection molded polycarbonate base and thermoformed ABS cover.

MAG ME 300F 300 amp
MAG ME 400F 400 amp

Magnum Automatic Generator Start Module

The Magnum AGS is compatible with most major generators and is designed to automatically start your generator based on low battery condition or the inside temperature of the boat.

Adjust the AGS to meet your needs: With the AGS, you can set the battery start voltage from 10-12 VDC or 20-22 VDC, the start temperature from 65° - 85°F, the run time from .5 to 6 hours, and the quiet time.

Manual start and stop: Auto gen start settings do not interfere with the manual start / stop operation of the generator. Just use any existing start / stop switch in your coach.

- Selectable quiet time 5 choices: 9 pm - 7 am, 9 pm - 8 am, 9 pm - 9 am, 10 pm - 8 am, 11 pm - 8 am

The network version AGS allows operation of the AGS via the ME Series remote panel with Magnum ME & MS series charger/inverters.

MAG ME AGS-N

Xantrex Freedom Inverter/Chargers

The Freedom SW 2000 inverter/charger features pure sine wave output and power factor corrected multi-stage charging to meet power needs of today's sensitive and sophisticated electronics. The Freedom SW 2000 offers premium performance and hard-to-match pricing in one package. It provides 2000 watts of continuous sine wave power to operate commonly used AC-powered electronics such as plasma television sets, microwaves, entertainment systems, computers, printers, power tools, mini refrigerator and much more

Features:

- Pure sine wave output to operate sensitive electronics
- Built-in transfer switch automatically transfers between inverter power and incoming AC power
- Power factor corrected multi-stage charger for fast, efficient charging
- Temperature compensated charging for all climate conditions
- Wide operating temperature range: 32°F to 122°F (0°C to 50°C)
- Ignition lockout prevents unnecessary battery drain when the alternator is not providing power
- Adjustable low-voltage disconnect
- Conformal coated circuit boards for humid environments
- On/off remote control panel with 25' cable included (Part# 808-9002)
- Easy to install and easy to use
- Optional GFCI (part# 808-9003)
- Meets CSA, UL458 (with marine supplement), ABYC and FCC Part 15, Class B requirements

Protection:

- Battery over-voltage and under voltage protection
- Over-temperature shutdown
- Automatic overload protection
- Short-circuit protection
- Ground-fault protection on units with GFCI option

Part #	Output	Output Current	Surge Power	Dimensions	Weight lbs
XAN 815-2000	2000A	100 Amp	4000 amps	H: 7.75" x W: 13.5" x L: 15.25"	66
XAN 815-3000	3000A	150 Amp	6000 amps	H: 11.8" x W: 17.1" x L: 20.5"	77

Notes

Xantrex Freedom HF Inverter/Chargers

Available in two sizes: 1000 watts with a 20-amp charger and 1800 watts with a 40 amp charger. Temperature-controlled multistage charging ensures that your batteries are recharged safely and efficiently. Both include an automatic transfer switch and a detachable digital remote control panel display that provides precise system information and can be mounted wherever you require the information.

- Power microwave ovens, TVs, DVD players, small appliances and other electronic equipment
- Automatic three-stage battery charger
- Hardwired using a terminal strip, or by connecting AC through GFCI receptacles (included)
- Built-in 30 amp relay to automatically transfer between inverter power and incoming
- Battery over-voltage and under-voltage protection
- Over temperature shutdown
- Automatic overload, short-circuit and ground-fault protection
- ETL listed for use in marine applications

Dimensions: 806-1020 H: 4.2 x W: 9.5 x L:15.5“
806-1840 H: 4.2 x W: 9.5 x L: 18.0“

Part #	Output	Charge Rate	Surge Power	Weight lbs
XAN 806-1020	1000A	20 Amp	2000 amps	10
XAN 806-1840	1800A	40 Amp	3600 amps	12.8

Xantrex Prosine 2.0 Series Inverter/Charger

Prosine 2.0 inverter/chargers deliver up to 2000 watts of true sine wave output power and combines this with a 100 amp, Multi-stage battery charger. Series stack ability allows for two units to power 240 VAC applications such as power tools, oven ranges, washer/dryer combinations and air conditioners. Includes a full function LCD remote control panel and battery temperature sensor.
100 Amp, 3-stage charger for flooded, AGM and gel batteries.

LCD Display panel

Independent inverter and charger on/off controls

- Push button control of power sharing, equalizing, battery set-up, and system configuration
- Easy to read backlit digital text messaging display
- Numerically displays AC and DC system information including volts, amps and state of inverter/charger

Monitors battery temperature and adjusts charger to provide an accurate charge in any climate

Battery Temperature Sensor

The included battery temperature sensor lets the unit adjust the charge formula in real time according to the actual battery temperature to ensure that batteries are fully, but not overcharged, even when the temperature fluctuates. 25' cable.

Electrical Specifications - Inverter

Output current ..... 17 A RMS continuous, 50 A peak
Output voltage ..... 117 VAC RMS

Electrical Specifications - Charger

Output current ..... 100 A DC continuous
Output voltage ..... 12 VDC nominal
Output voltage range ..... 0 - 17.5 V
Charge control ..... 3 stage with manual equalize
Charge temperature comp..... Remote battery sensor
Input AC voltage ..... 120 VAC nominal
Input AC voltage range ..... 90 - 135 VAC

- Built-in 30 A transfer switch automatically transfers between inverter power and incoming AC power
- Power sharing reduces charging current when AC loads are activated to prevent tripping of shorepower breaker
- Equalization mode conditions batteries for longer life
- Ground fault circuit interrupt protection
- Two year warranty
- 17.7 H x 11.2 W x 5.7" D

XAN 805-2020

Single supplier, maximum efficiency

Ingenious total solutions from Mastervolt

Reduce costs and maximize your efficiency. Mastervolt offers an integrated total solution for onboard power, including chargers, inverters, combi (inverter/chargers), batteries, transformers, generators, digital switching, e-propulsion and more. Our unique, space-saving MasterBus system optimizes power and makes installation a breeze using the high-speed CANBus network. And you'll find everything incredibly easy to operate, whether locally, centrally or remote-controlled via text messaging. Build your system with Mastervolt. Go to **www.mastervolt.com/masterbus**

MASTERVOLT

THE POWER TO BE INDEPENDENT

Mastervolt Mass Combination Inverter/Chargers

Battery charging, supplying 120V power, switching and the use of extended AC loads to be utilized on board, even when limited shore power is available. Power can be drawn from a shore connection, generator or charged batteries. Mastervolt's three-step plus charging method guarantees more battery power and a longer life span. These units are 1/2 the weight and 1/2 the amp draw of traditional inverter/chargers..

- True Sinewave for clean, efficient power
- High surge power output when starting
- Switch mode technology - extremely light weight & compact
- Generator / shore support - Parallel to generator or shore to increase start-up power with limited generator power
- Output power rated at max./peak voltage
- 3 stage + battery charging of up to 3 battery banks of lead acid, gel or AGM batteries
- Charger has the ability to revive a dead battery, includes an auxiliary power supply
- Built-in GND relay
- Ground stud
- Automatic transfer switch
- Variable speed fans for cooling
- Meet UL, ABYC and CE requirements
- Includes battery temperature sensor and ICC Remote Panel

Standard panel comes with the Mass Combis (panel frame exclusive). It indicates DC consumption, charge phase, failure and AC availability and contains a 'charger only' on/off switch. Connection cable (6m) included

	MSV 37-01-2005	MSV 37-02-2005	MSV 37-01-4005	MSV 37-02-4005
DC input voltage (nominal)	12V	24V	12V	24V
DC input voltage range	10-15V	20-31V	10-15V	20-31V
Continuous power @ 25°C / 77°F	2000 VA / 16.7A		3750VA / 16.5A	
Parallel use (to double the power)	yes		no	
Parallel with shore/generator	yes		yes	
Dimensions (H x W x D)	18.1" x 12.5" x 5.6"		18.7" x 12.5" x 10"	
Weight	24.3 lbs		46.3 lbs	
Max. charge rate (adjustable)	100A @ 14.25V DC	60A @ 28.5V DC	200A @ 14.25V	100A @ 28.5V
Primary AC consumption	1635 VA / 14.5A	1955 VA - 17A	3270 VA - 29A	5270 VA - 29A
Charge voltage @ 25°C / 77°F	14.25 / 13.25V	28.5 / 26.5V	14.25 / 13.25V	28.5 / 26.5V
Second charge output, 3stage	5A		2 x 5A	
Temperature sensor battery	6 metre cable and telejack plug standard		20' Cable & Telejack	

Newmar Inverter/Chargers

These inverters output pure sinusoidal AC for efficient operation of all appliances, plus loads with sensitive electronics and microprocessors such as computers and medical equipment. For applications where reliability and performance are paramount, and low noise operation has become a critical factor. All connectors and mounts are heavy duty commercial grade.

- Built-in high output charger for rapid battery bank replenishment - 1800-3000 watt models feature three stage charger with output programmable for, gel-cell, flooded lead-acid or AGM battery type and amp-hour capacity selector for proper charging in various applications
- Internal charger is activated by an automatic transfer relay whenever external AC power is available.
- Large DC input terminal blocks and front panel GFCI protected outlet receptacles (AC may be hard-wired)
- All important aspects of inverter and charger operation clearly displayed with front panel status indicators - optional remote panel available (See below)
- Short circuit, overload, over-temp, ground fault and output circuit breaker protection
- Thermally controlled cooling fan prolongs life of components
- Automatic low voltage shutdown circuit prevents damage to batteries
- Powder coated aluminum and con-formal coated internal circuitry
- UL listed with full two year warranty

Ref	Height x Width x Depth (mm)
I-2	7.5"(19.1) x 16.0"(40.6) x 15.5"(39.4)
I-3	10"(25.4) x 17"(43.2) x 16"(40.6)

Part #	Battery Voltage	Inverter Output Surge/Continuous	Charger Output Max Amps @V	Charger Input Max Amps	Case Type	Weight lbs
NEW 12-1800IC	12	4000/1800	85A@12V	15	I-2	54
NEW 12-3000IC	12	6500/3000	105A@12V	20	I-3	75
NEW 24-2200IC	24	6500/2200	40A@24V	15	I-2	57
NEW 24-4800IC	24	14,000/4800	115A@24V	40	I-3	95

Remote Panel

Remote control and indicator panel, duplicates all status indicators found on unit front panel and allows remote ON/OFF capability. Provided with 25' of cable.

NEW ICR-2-25

Mastervolt
Masterview Easy Touch Remote

- Allows the monitoring and control of multiple Mastervolt devices on one panel
- 3.5” Touch screen
- Multi language operation
- Compatible with the Mastervolt MasterBus network plug-and-play
- Low power consumption
- Integrated buzzer
- No external power supply needed
- Night view backlight
- Alarm indication via backlight color
- Key board lock function
- Flush front mounted and adhesive template
- Standard delivered with mounting bracket
- Fits in Raymarine/ Simrad size 110x110mm

MSV 77-01-0305

Mastervolt Mass Combi Remote

- Illuminated
- Adjustment of AC input limitation (4, 6, 10, 16 and 25 Amps)
- LED bars for read out of actual AC load, actual AC voltage and selected AC input limitation
- Status LED’s for external AC source and failure

MSV 70-40-5050

Mastervolt C3-Rs Remote Panel

- Aluminium construction
- Contains a CSI (Charger Status Interface) and a DC high/low alarm
- Will show an occurring charger error on its LED display by means of a code
- Dimensions: W: 120 x H: 65 x D: 40 mm

MSV 07-04-03040

Mastervolt
Masterlink MICC Panel

Remote control for a battery charger, inverter or charger/inverter combination (Combi). The information provided includes reading voltage, current, Ah, time remaining and remaining capacity in percentage terms of two independent batteries. The Masterlink MICC has LED indicators for remote monitoring of the battery level. A LCD screen also displays direct online data or historical information. A back box, easy to install, is included as standard for protecting the electronic components against moisture and dust.

- With LCD readout and LED bar
- Included shunt for precise measuring
- Includes protective housing
- Dimensions: 120 W x 65 H mm

MSV 70403105

Mastervolt
Masterlink BTM-III Panel

- For three independent batteries
- State of charge for all three banks
- Automatic calculation of charge efficiency factor
- More historical data than ever before, including ‘abuse counter’ (excessive & very slow discharges)
- Includes protective housing
- NMEA 0183 connection
- Read-out possible in ten different languages
- One shunt (500A/50mV) included (precise measuring of one battery)

MSV 70-40-3163

Parts:

MSV 6502001030	6 m remote cable
MSV 65-02-100150	15 m remote cable

Notes

Mastervolt Whisper 3.5 Diesel Generator

The Whisper 3.5 is an extremely compact oil-cooled one-cylinder diesel engine that can be fitted into the smallest location on board but is sufficiently powerful to run a small air-conditioning system, to permit limited electric cooking or to use a low energy water maker etc. At the same time your batteries are being charged quickly, allowing you to switch back to silent inverter power for the remainder of the day.

- 3.5 (3.2 kW) 120V 60Hz (3600 rpm) wet exhaust
- Sound shield of thick polyester
- Virtually vibration-free
- Most efficient initial surge tolerance
- Pure sine wave for continuous AC output
- Low-emission diesel technology
- Modern indirect-injection diesel engine
- Plug & Play installation
- Easy control and one-button operation
- Digital Diesel Control system included
- Easily removable composite casing
- Exhaust levels satisfy the most rigorous standards
- Dim: including sound shield L: 19.9" x W: 15.9" x H: 19.7"
- Dry weight 190 lbs

MSV 50-900-555

Extensive monitoring and single-touch operating is easy because of the Digital Diesel Control (DDC) panel (even automatic start/stop on low battery capacity voltage and interval).

Installation Kits

- Rotating hose fittings
- Ultra silent
- Easy installation
- Non flammable
- All installation parts included

MSV 50-23-0093 Exhaust silencer/waterlock
MSV 50-23-0097 Water/gas separator

Notes

Newmar Battery Integrators

- Enables charging of two separate banks without voltage drop, yet maintains 100% isolation at all other times
- For systems of three banks or more, an additional unit may be installed for each additional bank
- Continuous duty rated to 100 amps
- Easy three-wire hook up for two bank systems
- Terminal for optional wiring of remote light indicating when battery banks are integrated

NEW BI-100 12 volt
NEW BI-24-100 24 volt

Sure Power Battery Separators

Connects to primary battery, auxiliary battery and ground. No system modifications are necessary. Works with any type of 12V negative ground charging system 100 amps or less. Allows multiple batteries to be charged from one charging source.

- Charges primary and auxiliary battery after 13.2V

SUR 1314 Uni-Directional
SUR 1315 Bi-Directional

Sure Power Battery Isolators

These solid state isolators provide automatic charge distribution and load isolation of batteries, eliminating the need for operator intervention. Designed for negative ground alternator systems and batteries of the same nominal voltage. Will operate at full rated load over the ambient temperature range of -40°F to +250°F.

Part #	Charging Sources	Charging Amps	Banks	Dimensions (L x W x H)
SUR 702-D	1	70	2	4.5 x 3.25 x 3.25
SUR 703-D	1	70	3	4.5 x 3.25 x 3.25
SUR 1202-D	1	120	2	3.25 x 4.5 x 3.25
SUR 1203	1	120	3	6.5 x 4.5 x 3.25
SUR 1302	1	130	2	6.5 x 4.5 x 3.25
SUR 2002	1	200	2	9 x 4.5 x 3.25
SUR 2403	1	240	3	12 x 4.5 x 3.25
SUR 2702	2	70	2	6.5 x 4.5 x 3.25
SUR 2703	2	70	3	6.5 x 4.5 x 3.25
SUR 3202	2	120	2	12.5 x 4.25 x 3.25
SUR 3203	2	120	3	12.5 x 4.25 x 3.25

Sure Power Battery Equalizer

- Equalizers make sure 24 and 12V batteries charge and discharge equally. Will not interfere with other electronic components
- Fully sealed
- 40 Amp capacity
- Green L.E.D. operational light
- 8-1/2" W x 3-1/4" H x 7-1/4" D
- Weight: 9.16 lbs

SUR 52204

Mastervolt Battery Mates

While battery isolators are conventional diode splitters, the Battery Mate's technology is electronic and includes mosfets (transistors). Its components compensate for variations in voltage and ensure that charging continues at the right voltage level, even with several battery banks, with an alternator maximum of 160Ah at 12V or 24V. The input side on the Battery Mate is connected to the alternator and/or battery charger, while two batteries are connected to the output side. The Battery Mate is easy to install on a DIN rail (industry standard).

- Protects batteries & onboard equipment
- Complete Charging & simultaneous charging
- Robust, durable
- Solid state electronic technology (including Mosfets)
- Easy to install, Ignition proof
- Adjustable set-points
- Input: battery charger or alternator
- 207 H x 140 W x 80 D (mm)

MSV 08-31-16025 2 batteries

Mastervolt Masterswitch

Mastervolt gives you the option to switch automatically between available power sources. The Masterswitch will connect the output to the highest priority input, if available. Combing power sources becomes possible for high power consumption situations, such as when you want to do the laundry and cook at the same time with a limited shore or generator power supply.

- Selectable time delay for generator stability
- Two inputs (120V): inverter, shore power or generator
- Single outlet to the 120V power group
- Fully automatic or manual switching
- Power transfer up to 7 kW
- Can be combined with circuit breakers
- Discreet installation enclosure

MSV 05-51-06100

Mastervolt Master Shunt

The next generation in battery shunts. MasterShunt integrates the main system fuse with the shunt adding new technology to take analog battery information and turn it into digital information that can be read on the MasterVolt MasterView digital touch screen remote displays. All battery conditions, events and capacity can be displayed. The MasterShunt removes all the complexity of sense wires, small fuses in signal wires and the main system fuse. The MasterShunt should be located close to the batteries.

- Easy to install
- Real time clock for auto functions.
- 500 Amps continuous
- Monitored, built-in 500 amp fuse
- Parallel capability up to 4 units (2000A)
- Compatible with Mastervolt's MasterBus CANbus network
- Auto start/stop for the generator
- 150 x 146 x 65 mm

MSV 77-02-0100

Magnum Smart Battery Connector

- An easy to use stand alone battery combiner and isolator
- Apply a single charging source to the main battery and the ME-SBC charges a second battery using a portion of the charge
- Adjustable voltage ranges, automatic on-off points
- Transfers up to 25 amps
- Bi-directional charging

MAG ME-SBC

Xantrex Echo-Charge

Designed to charge auxiliary or starting batteries from an inverter/charger or other charging source with limited voltage drop.

- 15 A maximum charge current
- Automatically adjusts for 12 or 24 volt battery banks
- Automatically switches on/off without affecting the in-house battery bank or over-charging
- Utilizes excess current from the primary charging source
- Built-in thermal and over-current circuits
- Reverse polarity protection
- Easy three wire installation

XAN 82-0123-01 12/24 Volt

Xantrex Alternator Regulator

This unit turns an alternator into an intelligent source of charging. Multi-stage regulation provides optimal charging voltage for common battery types including flooded, gel, AGM and Optima batteries. Start delay and soft ramp features reduce belt and engine wear, and the Amp Manager function adjusts the maximum alternator output.

XAN 84-2006-01 Regulator

Mastervolt DC-DC Converter

This microprocessor-controlled converter, will turn 24V DC into 12V DC. Ensures that your onboard equipment has a stable power supply with the right voltage. If you have many power-consuming devices onboard, the parallel use of several units can allow capacities of 40, 60 or more Amps.

- Rugged aluminium extrusion body
- Completely shock proof
- Temperature-controlled fan
- Longer life span of halogen lights
- Battery charger function
- Dimmer function for atmospheric lighting
- Programmable via a desktop or laptop PC
- Efficient cooling (microprocessor controlled fan)
- Dimensions: 190 x 130 x 61 mm
- Weight: 1 kg

MSV 81200100

Forespar Lightning Master

Lightning Master Static Dissipaters lower the exposure to a direct lightning strike by controlling the conditions which trigger direct strikes (i.e. they reduce the buildup of static ground charge and retard the formation of the ion "streamers" which complete the path for a lightning strike). The Dissipater employs the point-discharge principal to continually leak off the lightning causing ground potential in low amperage dissipation over a long period of time instead of the short duration.

- Length: 21"

FRS 151100

Newmar Copper Ground Strap

10 mil thick x 2" wide soft copper ground strap. 100' rolls .

NEW GS-2"X100'

Guest Dynaplate
Hull Bonding and Grounding Plate

Reduces problems of RF interference, poor SSB or AM transmission / reception and poor reception of low frequency navigational bands such as Loran. Takes the ground away from your engine, providing a static-free line, eliminating interference and improving performance. Reduces the occurrence of electrolysis and galvanic corrosion due to differences between dissimilar metals. The bronze material serves as the next sacrificial metal on the galvanic scale after your zincs, providing another buffer against corrosion of stainless steel parts. Low drag, non-fouling shape scrapes clean with a wire brush. Each plate includes one gold plated mounting bolt and silver contact paste.

Part #	Plate Size	Equals Copper Sheathing
GUE 4006	6" x 2" x 1/2"	12 sq ft
GUE 4008	8" x 2-1/2" x 1/2"	20 sq ft
GUE 4012	12" x 3" x 1/2"	40 sq ft

ProMariner Shaft Brush

A 12" phosphor bronze shaft with metal graphite brush. Bonds propeller shafts to the vessel's bonding system, eliminating the need for shaft zincs.

PRO 20035

ProMariner
ProSafe Galvanic Isolation

Interrupts galvanic circuit with other boats and the dock when your boat is plugged into a shore power system. Maintains AC safety ground and solves the most common cause of galvanic corrosion. Protects against zinc loss. An economical way of stopping zinc loss and providing galvanic protection, but with no monitoring.

- Input: 120 VAC, 50/60Hz
- Rated: 41 amp continuous duty
- Use with 30 amp shore power cord
- L: 6-1/4" x W: 6" x H: 1-3/4"

PRO 22033

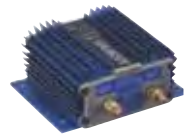
Newmar Galvanic Isolators

Installing a galvanic isolator between the AC safety ground and DC bonding system, blocks a majority of the low voltage currents, and corrosive action on the zincs is significantly reduced. This means a significant savings in boat haul-out fees and zinc replacement costs. For additional safety, the units feature a large capacitor, providing a secondary low impedance path for sending AC current to ground.

NEW GI-30 30 amp, 2.45 lbs, 2.7" x 4.8" x 7.3"
NEW GI-50 50 amp, 3.2 lbs, 4.5" x 4.7" x 8.9"

Guest Galvanic Isolator

Prevents the galvanic corrosion that occurs on boats with AC power feeds.



- Voltage Rating: 115/230VAC
- Frequency Rating: 50/60Hz
- Current Rating: 30A at 50°C
- Operating Temp: -20 to 50°C
- Continuous Amps: 30 Amps
- Operation: 115/230VAC/50-60Hz
- Dimensions: 7-3/4' W x 5' L x 2-1/2' H
- Weight: 3.25 lbs

GUE 4531001

ProMariner
Corrosion Test Meter

This analog test meter can help you find corrosion problems. Best used in saltwater environment. Easy to read good-/bad colour scale. Includes accurate silver chloride half cells on 20 foot test lead and a 10 foot probe lead.

PRO 20006

ProMariner Deluxe Corrosion Monitor

For monitoring corrosion on all types of vessels. It is installed between the zinc and the boat's bonding system. It monitors galvanic and stray currents that cause corrosion.

PRO 20030

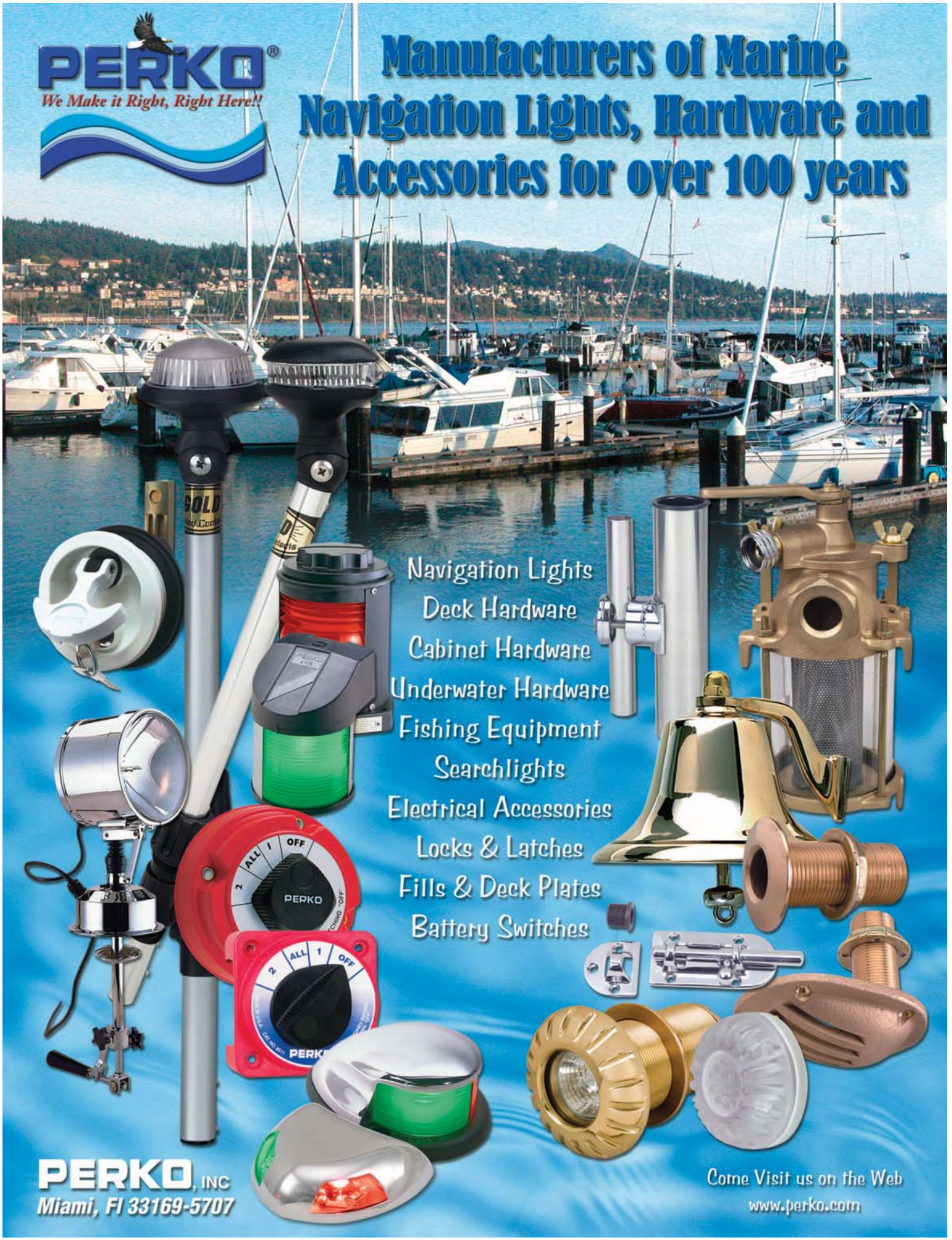
All the same features as the 20030 above but also includes a corrosion controller which prevents wooden hull damage and controls zinc consumption.

PRO 20020

ProMariner Corrosion Workbook

Take the guesswork out of corrosion control. Written for the nontechnical person, this book answers questions and corrects misunderstandings about galvanic corrosion and stray current corrosion.

PRO 20001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